

1 STATE OF MINNESOTA DISTRICT COURT
 2 COUNTY OF RAMSEY SECOND JUDICIAL DISTRICT
 - - - - -

3
 4 THE STATE OF MINNESOTA,
 5 BY HUBERT H. HUMPHREY, III
 6 ITS ATTORNEY GENERAL,

7 AND

8 BLUE CROSS AND BLUE SHIELD OF
 9 MINNESOTA,

10 PLAINTIFFS,

11 VS.

12 FILE NO. C1-94-8565

13 PHILIP MORRIS INCORPORATED, R.J.
 14 REYNOLDS TOBACCO COMPANY, BROWN &
 15 WILLIAMSON TOBACCO CORPORATION,
 16 B.A.T. INDUSTRIES P.L.C. LORILLARD
 17 TOBACCO COMPANY, THE AMERICAN
 18 TOBACCO COMPANY, LIGGETT GROUP, INC.,
 19 THE COUNCIL FOR TOBACCO RESEARCH-U.S.A.,
 20 INC., AND THE TOBACCO INSTITUTE, INC.

21 DEFENDANTS.
 22 - - - - -

23 VOLUME II

24 DEPOSITION OF

25 DR. TIMOTHY WYANT

AUGUST 19, 1997

8:39 a.m.

REPORTED BY: JAMES M. TRAPSKIN
 RPR, CM, CALIF. CSR 8407
 620 PLYMOUTH BUILDING
 MINNEAPOLIS, MINNESOTA 55402

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1 DEPOSITION OF DR. WYANT, VOLUME II,
 2 taken at the Law Offices of Robins Kaplan, Miller &
 3 Ciresi, 2800 LaSalle Building, 800 LaSalle Avenue,
 4 Minneapolis, Minnesota 55402, on the 19th day of
 5 August 1997, commencing at 8:39 a.m. before James M.
 6 Trapskin, a Notary Public, Registered Professional
 7 Reporter and Certified Shorthand Reporter.

8 * * * *

9 A P P E A R A N C E S

10 On Behalf of the Plaintiffs:
 11 Robins, Kaplan, Miller & Ciresi
 12 2800 LaSalle Plaza
 13 800 LaSalle Avenue
 14 Minneapolis, Minnesota 55402

15 BY: John Love

Thomas L. Hamlin

16 On Behalf of Lorillard Tobacco Company:
 17 Doherty, Rumble & Butler
 2800 Minnesota World Trade Center
 30 East Seventh Street
 18 St. Paul, Minnesota 55101-4999
 19 BY: Kirsten B. Stewart
 20 On Behalf of Philip Morris:
 Dorsey & Whitney
 21 Pillsbury Center South
 220 South Sixth Street
 22 Minneapolis, Minnesota 55402
 23 BY: Robert Schwartzbauer
 24 Mark Ginder
 25

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1 Arnold & Porter
 555 Twelfth Street, N.W.
 2 Washington, D.C. 20004-1202
 3 BY: Thomas E. Silfen
 4 Ellen H. Steury
 5 On Behalf of R.J. Reynolds Tobacco Company
 6 Jones, Day, Reavis & Pogue
 Metropolitan Square
 7 1450 G Street, N.W.
 Washington, D.C. 20005-2088
 8
 9 BY: Peter J. Biersteker

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I N D E X

EXAMINATION OF DR. TIMOTHY WYANT

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1 THE VIDEOGRAPHER: Good morning
2 we're on the video record.
3 Today's date is August 19th, 1997. The
4 time is now 8:39 A.M. This is a continuation
5 of testimony given by Dr. Wyant, the
6 beginning of Tape Number 5 in this
7 deposition.
8 May we have introduction of counsel
9 present today?
10 MR. BIERSTEKER: Peter
11 Biersteker from Jones, Day representing R.J.
12 Reynolds Tobacco Company.
13 MR. SILFEN: Tom Silfen from
14 Arnold & Porter for Philip Morris.
15 MR. GINDER: Mark Ginder from
16 Dorsey & Whitney for Defendants.
17 MS. STEWART: Kristen Stewart
18 from Doherty, Rumble & Butler for Lorillard
19 Tobacco Company.
20 MS. STEURY: Ellen Steury from
21 Arnold & Porter for Philip Morris.
22 MR. HAMLIN: Tom Hamlin from
23 Robins, Kaplan, Miller & Ciresi for
24 Plaintiffs State of Minnesota Blue Cross and
25 Blue Shield of Minnesota.

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1 MR. LOVE: John Love from
2 Robins, Kaplan, Miller & Ciresi for the State
3 of Minnesota and Blue Cross Blue Shield of
4 Minnesota.
5 (Defendants' Deposition Exhibit
6 3603 was marked for
7 identification.)
8
9 CONTINUED EXAMINATION
10 BY MR. BIERSTEKER:
11 Q. Good morning, Doctor. The reporter has been
12 so kind as to mark as Exhibit 3603 the table
13 that Mr. Hamlin provided to us after we
14 closed our session last evening, and I wanted
15 to ask you a few questions about the table.
16 This exhibit reflects your analysis of
17 the prevalence of major tobacco-related
18 diseases among nursing home entrants NHANES
19 from 1982 to 1992 that we talked about
20 yesterday, right?
21 A. It's a summary of them.
22 Q. Yes. How was the disease status of the
23 nursing home entrants NHANES determined?
24 A. NHANES has the diseases in the database for

25 entry into the nursing home.

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- 1 Q. Were any screening criteria employed?
2 A. I'm not sure what you mean.
3 Q. Well, do you use screening criteria and
4 claims data to identify people with, say,
5 CHD, right?
6 A. Excuse me, are you referring to the, the age
7 screens and those screens?
8 Q. Right. And you had to have more than one
9 medical event in which that was in the ICD-9
10 code, et cetera.
11 A. No, this is simply a summary of the ICD-9
12 codes appearing in the NHANES data.
13 Q. Now, unlike in the core model or the refined
14 model, at least in the summary table here the
15 disease categories are not mutually
16 exclusive, right?
17 A. No, they are not mutually exclusive.
18 Q. So for instance, if a smoker had lung cancer
19 and also had coronary heart disease in this
20 Exhibit 3603, he would be entered in the row
21 for both lung cancer and CHD, right?
22 A. That's correct.
23 Q. Now how did you define smokers for purposes
24 of this analysis?
25 A. I don't recall.

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- 1 Q. Is it the same definition that you used in
2 your main nursing home analysis presented in
3 the report?
4 A. I would presume so but I don't remember.
5 Q. You don't remember what the definition of
6 smoker was that you used in the main nursing
7 home analysis in your report?
8 A. I believe it was anyone that was an
9 ever-smoker. I can't recall whether it was
10 as of the time of the original interview or
11 as of '82.
12 There was some, there were a couple of
13 issues in NHANES regarding different
14 identifications of smoking at the time
15 periods, and I don't remember at this moment
16 exactly what all those, how all those things
17 were dealt with.
18 Q. Was the definition of a smoker one that a
19 person who had smoked for at least five
20 years?
21 A. I, I just, just don't recall.
22 Q. In any event, as best as you can remember, a
23 smoker was somebody who was either smoking at
24 the time of the initial interview in the
25 early 1970s or who was smoking in 1982, is

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- 1 that right?
2 A. That is my recollection of the main analysis,
3 yes.
4 Q. Now for what age group was the analysis
5 summarized on this table done on?
6 A. I don't recall.
7 Q. You indicated, I believe, yesterday that when
8 you examined this issue you looked at two age
9 groups. The first group was people above the

10 median age of entry into the nursing home and
11 the second group was people below it?
12 A. Yes.
13 Q. Would this be the group of people who were
14 above the median age for entry?
15 A. Well, I would, I think this is all people.
16 Q. This is all people.
17 A. Yes.
18 Q. There's no age criteria in here at all? It's
19 not over 65 or some other grouping?
20 A. There may be, I just don't remember.
21 MR. BIERSTEKER: Well, it, Tom,
22 it might be, or it might be useful to, in
23 light of the recall problem, and I understand
24 that that's, I'm very forgiving of that, but
25 in light of the recall problem, it might be
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1 useful if we had, if this was done in a
2 spreadsheet or if there's a computer program
3 or something that was used to build this
4 table, it, it may be useful for us to get it
5 and I'd appreciate that.
6 MR. HAMLIN: Okay, and I'll,
7 I'll look into that --
8 MR. BIERSTEKER: Thank you.
9 MR. HAMLIN: -- and we'll get
10 back to you.
11 BY MR. BIERSTEKER:
12 Q. In any event, if we examine this table, there
13 were 259 nursing home entrants who were
14 smokers. And I get that by adding the 213
15 and the 46 at the bottom.
16 A. I would -- what's your summary -- sum again?
17 Q. Two hundred and fifty-nine.
18 A. Yeah, I think that would be correct.
19 Q. And as I add them up, there were about 454
20 cases, if you look at each of the specific
21 diseases.
22 If that's the case, every smoker in this
23 group, on average, had about 1.75
24 smoking-related diseases.
25 Would that be right?
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1 A. I'm not going to try to verify your
2 arithmetic, but. . .
3 Q. But the arithmetic I did is conceptually the
4 way you have to do it?
5 A. Well, I think, I think in principal what
6 you've just stated is correct here.
7 Q. It, it seems to me, then, based on this data,
8 that the occurrence -- well, most of those
9 diseases were the, were the three, most of
10 the cases were the three heart disease
11 categories reflected in the chart:
12 cerebrovascular disease, coronary heart
13 disease and atherosclerosis, correct?
14 Now Doctor, I just added up the three
15 heart disease cases for smokers and I got 319
16 out of the total of 454.
17 A. Well, I'm not sure how you just stated that.
18 COPD is certainly a --
19 Q. There's a large number there, yes.
20 A. A large number and more for the smokers than

21 atherosclerosis and cerebrovascular.
22 Q. I understand. But my question to you was,
23 don't the three heart diseases together, the
24 categories that are indicated on this chart,
25 account for the lion's share of the cases
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1 among the smokers?
2 MR. LOVE: I'll object to the
3 form of the question. But answer if you can.
4 THE WITNESS: Okay. So for the
5 smokers you've added up cerebrovascular,
6 coronary heart and atherosclerosis.
7 BY MR. BIERSTEKER:
8 Q. Correct.
9 A. And your question is, if you add those three
10 up, is it more than half of the cases for
11 smokers?
12 Q. Yes. By my count, it's 319 out of 454.
13 A. That looks to be approximately correct.
14 Q. And there were very few smokers entering the
15 nursing home who had cancer, weren't there?
16 A. Well, there were fewer than of the other
17 categories.
18 Q. Doctor, doesn't this suggest that the -- let
19 me try it again. Doesn't this suggest that
20 the number of smokers who have both lung
21 cancer/COPD and CHD/stroke, at least among
22 these individuals, is actually pretty high?
23 A. I don't know see how you can draw that
24 conclusion from this.
25 Q. Well, there were 213 cases of -- or, or
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1 individuals, rather, with tobacco-related
2 disease who, in the smoker group who entered
3 the nursing home, right?
4 A. Right.
5 Q. And if there were 454 cases of the different
6 diseases, that would mean that each smoker
7 who had a tobacco-related disease, on
8 average, had more than two tobacco-related
9 diseases, right?
10 A. Yes.
11 Q. Do you know what the prevalence of smoking
12 was in this group from whatever time point
13 you measured it, whether it was 1972 or 1982?
14 A. The prevalence of smoking was?
15 Q. Yeah, the prevalence of ever smoking in this
16 group.
17 A. Well, this -- I'm not sure what you're
18 talking about.
19 The people in this table were, you've
20 obviously got a count of smokers and
21 nonsmokers.
22 Q. Right. But these are the people entering the
23 nursing home, right?
24 A. Yes.
25 Q. Okay. You, you, I take it as part of this
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1 analysis, looked first at people in the
2 community represented in the NHANES survey
3 and then followed them as they went into the
4 nursing home over the 10-year period, right?
5 A. Well, we made a lot of calculations about

6 people during that period.
7 Q. Isn't that what you did in order to construct
8 this chart?
9 A. To construct this chart?
10 Q. Yeah.
11 A. We looked at anybody who was in -- who
12 entered a nursing home during this period.
13 Q. On Page 2 of Exhibit 3601, I believe, the,
14 the main report -- actually, it's 3602, I
15 think -- you record the prevalence of current
16 or former smoking in the adult Minnesota
17 Medicaid population as being 61.1 percent.
18 A. Correct.
19 Q. If we take that as a proxy for the smoking
20 prevalence of people in the community from
21 which these nursing home entrants were
22 identified, we could compute the relative
23 rate at which smokers and nonsmokers entered
24 the nursing home, couldn't we?
25 A. Well, you could do that, but I wouldn't take

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1 that as a reliable proxy in this situation --
2 Q. Well, that's why I asked.
3 A. -- with different age groups and different
4 data sets.
5 Q. Well, do you know what the prevalence of
6 smoking was in whatever age group you were
7 examining here --
8 A. No.
9 Q. -- in NHANES?
10 A. No, I'm not as we sit here.
11 Q. When you did your main nursing home analysis,
12 you used smoking prevalence data from BRFSS
13 in order to do your computations, right?
14 A. That's correct.
15 Q. Was the smoking rate that you took from BRFSS
16 to do your smoking analysis the smoking rate
17 that was controlled for insurance status?
18 A. I can't recall right now.
19 Q. Well, why don't you turn to your report at
20 Page 28. And it does indicate that smoking
21 status was controlled for age and gender, but
22 I don't see any reference to insurance, is
23 that right?
24 A. There's no reference here.
25 Q. Yeah, there is. In the second --

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1 A. Oh.
2 Q. -- paragraph on the page the third sentence
3 in. It reads, quote, "The age and
4 gender-specific expenditures are then
5 discounted by the percentage of persons who
6 smoke, which we derive from the BRFSS."
7 Do you see that?
8 A. Yes.
9 Q. I assume that you did smoking prevalence by
10 age and gender, then.
11 A. That's certainly consistent with this
12 statement. And I don't recall anything
13 different, but I don't recall exactly what
14 the calculation was, either.
15 Q. Okay. But it does not indicate here that
16 there was any control for insurance status,

17 right?
18 A. That's correct.
19 Q. And then on Page 14, you report the
20 prevalence of smoking in Minnesota, and you
21 have all current or former smokers together
22 being 52.3 percent of the population, right?
23 A. That's correct.
24 Q. And I'm just going to assume that those
25 smoking prevalence numbers are correct and we

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1 can talk about how this calculation would
2 change if they were wrong.
3 But if I wanted to compute the relative
4 rate of entry of never-smokers compared to
5 ever-smokers, what I would do is take the
6 number from your table of smokers entering
7 the nursing home and divide that by the
8 prevalence of smoking, right?
9 A. Well, I would regard that as a meaningless
10 comparison.
11 Q. Let me just make my comparison and let me
12 make sure that I'm doing it right.
13 If I wanted to compute the relative rate
14 of entry into the nursing home for smokers
15 and nonsmokers, I can't just take the numbers
16 that appear in your table and compare them,
17 can I?
18 A. No.
19 Q. I have to take into account smoking
20 prevalence, don't I?
21 A. That's correct.
22 Q. And the way I would take into account smoking
23 prevalence is I would divide the number of
24 smoker entries by the prevalence of
25 ever-smokers, correct? As a first step in

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1 the math. Just walk through the math with
2 me.
3 A. I, I can't, I can't state to what you would
4 do, it's not what I would do in this
5 situation.
6 Q. All right. How would you take into, how
7 would you factor in prevalence if you wanted
8 to get a relative rate of entry into the
9 nursing home using the number of entrants
10 you've got in your table and smoking
11 prevalence information as reflected on Page
12 14 of the report?
13 A. I wouldn't do that.
14 Q. I know you wouldn't use the smoking
15 prevalence information on 14 -- on Page 14 of
16 the report.

17 But since you can't remember what the
18 smoking prevalence is, we're going to use
19 this as a surrogate just we can understand
20 how the calculation would be done, okay?

21 MR. LOVE: Well, I'll object to
22 the form of the question.

23 If you can do it that way, fine. If you
24 can't, you can't.

25 BY MR. BIERSTEKER:

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1 Q. If you have smoking prevalence information,

2 Doctor, and you know the number of smokers
3 who entered the nursing home and the number
4 of never-smokers who entered the nursing home
5 you could compute a relative rate of entry,
6 couldn't you?
7 A. If those are from different sources and
8 computed in different ways, that's a
9 meaningless concept.
10 Q. Doctor, if we assume that the split of ever
11 smoking and never smoking was 50-50, you with
12 me?
13 A. In where?
14 Q. In the population in the community that's the
15 same age group as whatever age group is
16 reflected on this chart that you can't
17 remember.
18 A. Well, people in this chart are going into the
19 nursing home at different ages. So there is
20 no single number that's appropriate for
21 comparison.
22 Q. Its an age group, however, right?
23 A. I'm sorry?
24 Q. Isn't, doesn't, aren't the people in this
25 chart from an age group?

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1 A. They're from an age group, yes.
2 Q. All right. And all the time in your
3 analyses, in fact your entire core model is
4 based on smoking prevalence information from
5 an age group, isn't it?
6 A. That's certainly true.
7 Q. Was that a meaningless analysis?
8 A. That was a very meaningful analysis.
9 Q. All right. Well, we're going to do another
10 meaningful analysis, and I'm asking you to
11 assume that the smoking prevalence rate in
12 the age group in the community from which
13 these nursing home entrants came is 50-50; 50
14 percent were ever-smokers and 50 percent were
15 never-smokers, okay?
16 A. I don't regard that as a reasonable
17 assumption.
18 Q. Look, I just want to understand how the
19 calculation would work. We can change the
20 numbers. I want to walk through it with you,
21 all right?
22 A. To make a meaningful calculation in this
23 group, which is different from the core
24 model, you would have to know the, the
25 prevalence by age group compared to these

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1 entrants.
2 Q. All right. Let's try it -- Mr. Silfen makes
3 a good suggestion. Let's assume that for
4 each and every age group the split or each
5 and every age, if you wish, the split of
6 smokers and never-smokers is 50-50.
7 A. That's a totally unrealistic assumption.
8 Q. Can you make the assumption or can't you?
9 Just to illustrate --
10 A. One --
11 Q. -- how the calculation would work.
12 A. One can make the assumption.

13 Q. Fine. Make it, please. Is it made?
14 A. It's made.
15 Q. All right. Now if I wanted, then, to
16 understand the relative rate of entry into
17 the nursing home for individuals in this age
18 group as a whole, I would just take the
19 number of never-smoker entrants and the
20 number of smoker entrants and divide, right?
21 A. No, I don't think that's correct.
22 Q. Why --
23 A. Because you have to, to make this
24 calculation, you have to also separate out
25 these people by what age group they're in.

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1 Q. Now I asked -- I want to do the calculation
2 for the entire group of people, not for each
3 individual year.
4 A. Do --
5 Q. It's the same way you did it here, right, on
6 this chart?
7 A. This chart was not going to relative, any
8 relativity, except just a comparison of those
9 who entered, what diseases the smokers had
10 and what the nonsmokers had.
11 Q. Yes, but you didn't compare them for age by
12 age, did you?
13 A. No.
14 Q. You did it over the entire group, right?
15 A. That's correct.
16 Q. All right. Well, I want to look at nursing
17 home entry over the entire group.
18 And isn't it true, Doctor, that there
19 were 415 nonsmokers who entered the nursing
20 home from this group in the period in which
21 you analyzed it?
22 A. That's correct.
23 Q. And there were 259 smokers, right?
24 A. That's correct.
25 Q. All right. Dividing 415 by 259, I come out

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1 with 1.60, all right? Just assume my
2 calculation works.
3 A. I'm not arguing with your arithmetic on that.
4 Q. All right. If that were the case and if the
5 smoking prevalence for this age group was
6 50 percent, then never-smokers were entering
7 the nursing home at a 60 percent higher rate
8 than the never-smokers -- than the smokers,
9 correct?
10 MR. LOVE: I object to the form
11 of the question.
12 MR. BIERSTEKER: I'll ask the
13 question again.
14 BY MR. BIERSTEKER:
15 Q. If the smoking prevalence is 50-50, that
16 would mean that never-smokers were 60 percent
17 more likely to enter the nursing home than
18 smokers in this group, right?
19 MR. LOVE: I object to the form
20 of the question. Answer if you can.
21 THE WITNESS: I'm sorry, can you
22 repeat that?
23 BY MR. BIERSTEKER:

24 Q. We take our never-smoker entrants as 415.
25 A. Yes.

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1 Q. We divide by our never-smokers entrants
2 that's 259, right?
3 A. Yeah.
4 Q. We don't have to account for prevalence
5 because we've assumed it's 50-50, correct?
6 A. Okay.
7 Q. And doing that math, which I'll do again, I
8 get 1.60, approximately.

9 Now assuming that my calculator works,
10 does, doesn't that mean, if all of our
11 assumptions hold, that never-smokers entered
12 the nursing home at a 60 percent higher rate
13 than smokers in this group?

14 MR. LOVE: I object to the form
15 of the question.

16 THE WITNESS: Well, I just don't
17 regard that as a meaningful calculation.

18 BY MR. BIERSTEKER:

19 Q. I know but I want you to do the calculation
20 and tell me if I've got the answer right.

21 Did I do it right?

22 A. Well, if you assume that, that you don't need
23 to control for sex and age and you haven't,
24 and you've assumed these other
25 characteristics, I don't have any problem

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1 with that arithmetic. I just don't think it
2 has any substantive meaning, whatsoever.
3 Q. If you don't control for age other than for
4 the age group and you don't control for
5 gender and the smoking prevalence is
6 50 percent, isn't it true that the
7 never-smokers in this group entered the
8 nursing home at a 60 percent higher rate than
9 the smokers?

10 MR. LOVE: I'll object, asked
11 and answered.

12 MR. BIERSTEKER: It hasn't been
13 answered.

14 MR. LOVE: He told you he agreed
15 with the math but he didn't agree with the,
16 the interpretation.

17 BY MR. BIERSTEKER:

18 Q. Doctor?

19 A. Same answer.

20 Q. Doctor, on Page 4 of the report where you
21 say, "Smokers entering nursing homes during
22 this period were far more likely than
23 never-smokers to be suffering from lung
24 cancer and COPD"?

25 A. Yes.

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1 Q. Now you base that on this analysis in this
2 chart, right?

3 A. That's correct.

4 Q. And the analysis you did in this chart didn't
5 control for age, did it?

6 A. No.

7 Q. It didn't control for gender, did it?

8 A. No.

9 Q. And you yet thought that this analysis was
10 somehow meaningful, didn't you?
11 A. Yes.
12 Q. So why isn't my same analysis, not
13 controlling for age and not controlling for
14 gender and looking at the same people but
15 just looking at the overall rate of entry
16 into the nursing home, meaningful?
17 A. Those are the critical factors that go into
18 our analysis on which we spent time
19 identifying and which were used in the
20 calculations.
21 This is a simple statement describing
22 one aspect of these data.
23 Q. All right.
24 A. That simply says what it says.
25 Q. All right. And I would like to have a simple
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1 statement analyzing these data that says what
2 it says along the lines that I've suggested.
3 And that is, without controlling for age
4 and gender and assuming a 50 percent smoking
5 rate, isn't it true that the nonsmokers in
6 this group entered into the nursing home at a
7 60 percent higher rate than the smokers?
8 That's all.
9 MR. LOVE: Objection, asked and
10 answered.
11 THE WITNESS: In the context of
12 those factors, I just think it's misleading
13 to make a simple statement like that.
14 BY MR. BIERSTEKER:
15 Q. Was your simple statement misleading?
16 A. No.
17 Q. Why not? What's the difference?
18 A. These are characteristics that were not
19 considered as fundamental to the analysis;
20 it's simply a description as it stands.
21 Those factors were not used in this main
22 nursing home analysis.
23 Q. With all due respect, that's very circular,
24 Doctor.
25 I would like to do this and I would like
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1 to have an answer to the question I asked.
2 And I understand you may disagree with the
3 significance of it.
4 But isn't it true that if you don't
5 control for age and gender and you assume a
6 50 percent smoking rate in this population
7 that the never-smokers entered the nursing
8 home at a 60 percent higher rate than the
9 smokers?
10 MR. LOVE: I'll object it's been
11 asked and answered. And you're arguing with
12 the witness.
13 MR. BIERSTEKER: I'm trying to
14 get an answer from the witness, Mr. Love.
15 MR. LOVE: You're trying to get
16 the answer you want from the witness.
17 MR. BIERSTEKER: I'm trying to
18 get the truth.
19 MR. LOVE: Well, you got it.

20 THE WITNESS: I still think it
21 would be misleading to characterize the
22 calculation that way.

23 BY MR. BIERSTEKER:

24 Q. Doctor, do you believe that smokers entering
25 the nursing home during this period were far

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1 more likely than never-smokers to be
2 suffering from lung cancer and chronic
3 obstructive pulmonary disease?

4 A. That's what the accounts show.

5 Q. And Doctor, don't these same data, analyzed
6 in the same way, show that never-smokers were
7 far more likely than smokers to be entering
8 the nursing home during this period?

9 A. No, there you're talking about comparative
10 rates.

11 Q. You're not? You say far more likely.

12 A. Well, these --

13 Q. Isn't that comparative?

14 A. -- are rates based on a denominator of people
15 entering the nursing home. And that's what's
16 shown in this chart.

17 The rates you're talking about have to
18 do, have integral to them other rates that
19 we're not discussing here.

20 Q. My denominator is different, right?

21 A. That's correct.

22 Q. Okay. What rate, though, is different?

23 A. The rate of smoking.

24 Q. Oh, the rate of smoking. But we've assumed
25 that's 50-50. That's an easy thing to do,

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1 isn't it?

2 A. It's an easy to do, but I don't know how
3 meaningful it is.

4 Q. Well, then why can't we just do it? And why
5 can't we say, which is what the data show,
6 that the never-smokers enter at a 60 percent
7 higher rate if you assume a smoking
8 prevalence of 50-50 and you do it over the
9 entire period without controlling for age and
10 gender. Right?

11 MR. LOVE: I object again. It's
12 been asked and answered.

13 THE WITNESS: I think given the
14 importance of the things we're assuming away,
15 I just would not characterize the answer.

16 You can do the arithmetic and I don't
17 have any quarrel with the arithmetic you've
18 done. I don't think that's a proper
19 characterization of the answer.

20 BY MR. BIERSTEKER:

21 Q. Didn't you say earlier, in explaining to me
22 the basis of the sentence on Page 4 of
23 Exhibit 3602, that that statement reflected
24 what the counts show?

25 A. Yes.

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1 Q. And don't the counts also show, if you assume
2 a 50 percent smoking rate, that never-smokers
3 entered the nursing home at a 60 percent
4 higher rate?

5 A. But you have to assume a 50 percent smoking
6 rate.
7 Q. Okay. But if you do that, that calculation,
8 that is what the calculation shows, right?
9 A. The calculation, I, I can't -- I do not
10 quarrel with that arithmetic. I don't accept
11 that as a meaningful answer.
12 Q. That's fine. Thank you.
13 You said earlier today, and I think
14 yesterday as well, that age was an important
15 factor affecting the nursing home entry,
16 right?
17 A. Yes.
18 Q. There, was the age distribution of smokers
19 and nonsmokers the same?
20 A. For which age distribution?
21 Q. Pardon me?
22 A. I'm sorry, what?
23 Q. Was the age distribution of smokers and
24 nonsmokers that you used in the nursing home
25 analyses the same?

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1 A. No.
2 Q. But you only compared smokers and nonsmokers
3 in your nursing home, your main nursing home
4 analysis were the same age, right?
5 A. I'm sorry, could you repeat that?
6 Q. Your main nursing home analysis compared
7 smokers and nonsmokers who were the same age,
8 right?
9 A. Yes.
10 Q. If you do not control for age, then you allow
11 smokers and nonsmokers to have different
12 ages, right?
13 A. Yes.
14 Q. Now if smokers, as a group, tend to be
15 younger because they smoke, shouldn't you
16 allow the smokers to have a different age
17 distribution?
18 A. Smokers are younger because they smoke?
19 Q. As a group, yeah.
20 A. What does that mean?
21 Q. Well, if smokers die earlier because they
22 smoke and, accordingly, as a group are
23 younger, shouldn't the analysis of nursing
24 home entry rates among smokers and nonsmokers
25 permit the smokers as a group to be younger

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1 and not age controlled?
2 A. No, absolutely not.
3 Q. Why not?
4 A. Our calculations work on an annual basis in
5 Medicaid on those expenditures that can be
6 attributed to smoking. And those should be
7 done on an age specific basis.
8 Q. When, in the refined model when a person was
9 put, a person was first put through as a
10 smoker, right? A BRFSS person.
11 A. Yes.
12 Q. And then that BRFSS person was put through as
13 a never-smoker, right?
14 A. Yes.
15 Q. And when you did that, you changed the

16 probability that the person had for treatment
17 of a tobacco-related disease, right?
18 A. Yes.
19 Q. Why did you do that?
20 A. Well, the refined model was looking at
21 differences in those probabilities that might
22 occur on average in groups with other
23 characteristics similar to the BRFSS cells.
24 Q. Wasn't the point that smoking -- wasn't the
25 point of doing that that a person's smoking
252 status affects the probability that they're
1 going to be currently treated for
2 tobacco-related disease?
3 A. Oh, boy, I certainly believe from our
4 analysis that a person's smoking status does
5 affect that probability. And I believe that
6 part of our calculation to reflect that
7 involved this BRFSS work.
8 Q. Right. And so when you put the person
9 through as a smoker, you assigned him the
10 higher probability of current treatment
11 that's associated with smoking, right?
12 A. Yes.
13 Q. And when you put the BRFSS person through as
14 a never-smoker, you assigned to him the lower
15 probability that he would have current
16 treatment for tobacco-related disease,
17 correct?
18 A. Well, you're not really assigning to that
19 BRFSS person a probability. The point of
20 that calculation is to say if, in the people
21 in this group, if other characteristics were
22 like these persons, how would these
23 relationships change.
24 Q. And if smokers were like never-smokers,
253 wouldn't they, as a group, be older?
1 A. That really depends on what group you're
2 talking about.
3 Q. Yesterday near the end of the day we talked
4 about what your estimates do.
5 And if you'll turn to Page 1 of your
6 main report, Exhibit 3602, and it says there,
7 just to, to give it some context, that you
8 were attempting to determine the amount of
9 money the Plaintiffs expended in 1978 to 1996
10 to purchase smoking-attributable health care
11 services, right?
12 A. Yes.
13 Q. Now that's not the same thing as determining
14 how much more or less the Plaintiffs would
15 have paid for health care services from 1978
16 to 1996 if nobody had ever smoked, is it?
17 A. No, it's not the same.
18 Q. How does it differ?
19 A. This looks at the world as it was and looks
20 at actual diseases that occurred that were
21 attributable to smoking and calculates the
22 costs for those. People did smoke. This
23 analysis takes that into account.
24 Q. If you wanted to know how much more or less
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1 money the Plaintiffs would have paid for
2 health care services if nobody ever smoked,
3 you would have to do a longitudinal analysis,
4 wouldn't you?
5 A. I don't know what all you'd have to do.
6 Q. You would have to do a different analysis
7 than the one that you have done, right?
8 A. I would think so, yes.
9 Q. Do you know, then, whether there would be
10 more, whether Plaintiffs would have paid more
11 or less money for health care services if
12 nobody had ever smoked?
13 A. I have absolutely no idea.
14 Q. Does the analysis that you and Doctors Miller
15 and Zeger have done tell us how the health
16 care expenditures of the Plaintiffs would
17 have been different if everybody stopped
18 smoking at a certain point in time, say, 1965
19 or 1955?
20 A. No, it doesn't tell us that.
21 Q. Do any of your analyses tell us whether or
22 not the Plaintiffs would have paid more for
23 medical care if the Defendants' conduct had
24 been different than it was?
25 A. Whatever the conduct was, our analysis takes
255
1 that conduct into account. And that's the
2 only conduct it addresses.
3 Q. But you are not, in fact -- well, let me ask
4 this: if the question were -- let me give you
5 an introduction first.
6 There are allegations in this lawsuit,
7 as there are, frankly, in every lawsuit I've
8 ever encountered, that the defendant did
9 something wrong, all right?
10 Do your analyses attempt to quantify the
11 harm to the Plaintiffs because of the wrong
12 that the Defendants allegedly committed?
13 A. Our analysis looks at the attributable
14 expenditures in the world with whatever
15 wrongs the tobacco companies may have
16 committed.
17 Q. But you don't compare that world to a world
18 in which the tobacco companies hypothetically
19 committed no wrong, right?
20 A. No, I don't do that.
21 Q. And in, and in order to quantify the effect
22 of the wrong, isn't that what you have to do?
23 A. You're asking for a legal opinion and I can't
24 give that.
25 Q. Well, Doctor, you've testified in a lot of
256
1 cases.
2 When you compute damages in other cases,
3 don't you compare the world as it was to the
4 world as it should have been?
5 A. That's not always the case. Many times I
6 calculate certain quantities. And to the
7 extent that those are legally related to
8 their own doing is, is not my province.
9 Q. In any event, in this case the should have
10 been world upon which your calculation is
11 based is not the world in which Defendants

12 committed no wrong, right?
13 MR. LOVE: I object to the form
14 of the question.
15 THE WITNESS: I'm sorry, the
16 should have been word upon which my
17 calculations are based?
18 MR. BIERSTEKER: Never mind.
19 Why don't we take a break and we'll come
20 back.
21 THE VIDEOGRAPHER: The time is
22 now 9:35, and we are temporarily going off
23 the video record.
24 (A recess was taken.)
25 THE VIDEOGRAPHER: We're back on
257
1 the video record. The time is now 9:49.
2 Thank you.
3 BY MR. BIERSTEKER:
4 Q. Doctor, I had just one question to kind of
5 wrap up what we were talking about
6 immediately before we broke.
7 And that was, do you know whether
8 Plaintiffs would have paid more or less money
9 for health care services if Defendants had
10 not committed the wrongs that are alleged in
11 the Complaint?
12 A. No, I don't know that.
13 Q. Now the core model, I believe we said
14 yesterday, was intended to be a check or a
15 test of some kind on the refined model, is
16 that right?
17 A. It was intended as a check, although I
18 believe I said also that it's a perfectly
19 reasonable model in its own right.
20 Q. How disparate would the estimates of the
21 smoking-attributable expenditures have had to
22 be as between the core model and the refined
23 model for you to conclude that the refined
24 model didn't pass the check?
25 A. I don't have any threshold.
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1 Q. I hate it when witnesses do that because now
2 I've got to ask a bunch more questions.
3 If the smoking-attributable expenditures
4 were 20 percent lower, using the core model,
5 would that have been a cause for concern
6 about the refined model?
7 A. I don't know. I haven't really thought about
8 the context.
9 And if as -- you know, as a check it
10 simply shows the difference in two different
11 ways of doing it. As it gets, as the
12 difference grows greater, then you begin to
13 look at reasons why.
14 And I don't have any particular
15 threshold that I could say that I would
16 definitely or, you know, at what point I
17 would start doing more and how much more. I
18 couldn't tell you.
19 Q. Well, when you say that you would go and look
20 at the reasons why the differences were
21 occurring, if they were large, would the
22 purpose of, of looking for those reasons be

23 to, perhaps, modify the model?
24 A. No, it would be to increase our understanding
25 of the process.

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1 Q. So understanding why differences arise would
2 not be something that you would take into
3 account in possibly revising the models, is
4 that right?
5 A. Well, certainly -- well, I'm not sure I quite
6 understand the question.
7 But if one developed a, a better
8 understanding of, of the processes, then I
9 would assume that it would be appropriate to
10 make sure that the statistical methods
11 reflected that understanding.
12 Q. I guess what I'm trying to get at is you said
13 it was a check. And what I wanted to know is
14 if at some point you said -- if, if it had
15 turned out, for example, that, I don't know,
16 the, the smoking-attributable expenditures
17 estimated by the core model were half of what
18 had been estimated by the refined model,
19 would you have modified in some way the
20 refined model? That's not close enough and
21 you want to get closer.
22 A. No, I have no idea what we would have done.
23 We might have just reported these, the
24 results, and this is where they stand.
25 Probably if it had been that much

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1 different, myself I would have tried to
2 develop a better understanding and understand
3 why they were different. Whether any
4 modification was appropriate or not, I have
5 no idea.
6 Q. When you imputed or filled in data, something
7 we talked about yesterday for a brief period,
8 did you sometimes use what are called best
9 predicted values?
10 MR. LOVE: I object to the form
11 of the question.
12 THE WITNESS: Well, I believe
13 what we talked about yesterday was imputed or
14 estimated.
15 BY MR. BIERSTEKER:
16 Q. Yeah, and I thought you used filled as -- or
17 don't you use the term "filled in" as being
18 similar to estimated?
19 A. Well, it's similar in some respects.
20 Q. Fine. Well, whatever words you want to use.
21 When you estimated missing data or
22 filled it in or imputed it, you frequently
23 used best predicted values, didn't you?
24 A. Well, we certainly filled them in using best
25 predicted values by some commonly accepted

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1 measures. And I'm only qualifying this,
2 because in the world of academic statistics
3 there are disputes about what precisely are
4 the characteristics of a best predicted.
5 But. . .
6 Q. Your expertise is, is in statistics, isn't
7 it?

8 A. That's correct.
9 Q. Are you an expert economist?
10 A. I work with economic data. And I'm familiar
11 with a lot of economic analytic techniques
12 that are generic to both statistics and
13 economics. I would not call myself an
14 economist.
15 Q. When you filled in or estimated missing data,
16 did you do so conditionally on all of the
17 available data?
18 A. Well, what do you mean by "available data," I
19 guess?
20 Q. Well, for example, in NMES there were
21 instances where you had to impute a seat belt
22 and then overweight for some people, right?
23 MR. LOVE: I object to the form
24 of the question.
25 THE WITNESS: I, I don't, I
262
1 don't know that we had to impute anything or
2 that I would characterize it that way.
3 BY MR. BIERSTEKER:
4 Q. Well --
5 A. But --
6 Q. -- did you estimate or fill in or impute
7 missing values for some of the people in NMES
8 for seat belt use and being overweight?
9 A. I don't recall right now how missing
10 information for those two characteristics
11 were handled.
12 Q. You recall that some values were missing, I
13 take it?
14 A. Well, I believe that's correct, yes.
15 Q. Do you know whether or not missing values
16 were imputed, estimated or filled in when
17 they were missing in some of your analyses?
18 A. I'm sorry, would you repeat that?
19 Q. Well, do you know if missing values for those
20 variables were filled in or estimated or
21 imputed in some of your analyses?
22 A. For those variables?
23 Q. Yes, sir.
24 A. I don't recall what was done for those two
25 variables.
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1 Q. When you did estimate or fill in missing
2 values, did you do so using all of the data
3 that you had available to you?
4 A. Well, certainly there were many data fields
5 on NMES and on BRFSS that we've never looked
6 at.
7 Q. So the answer is, no, you did not use all of
8 the available data, right?
9 A. We, we certainly did not make use of every
10 piece of information collected in those
11 surveys.
12 Q. When you exclude variables such as exercise
13 and diet that we talked about yesterday,
14 aren't you assuming that they have no
15 relationship to whatever it is you're trying
16 to estimate?
17 A. Well, no, I don't think you'd be making that
18 assumption.

19 Q. Well, aren't you, in effect, forcing them to
20 have a zero coefficient?
21 A. You're, in effect, forcing them to have a
22 zero coefficient if we're talking about
23 regression and similar analyses.
24 But the assumptions you're making may be
25 that the effects are minimal enough, for
264
1 example, that it's not reasonable to include
2 that in the equation or it may come into the
3 equation as a nonindependent characteristic
4 that doesn't have any effect on it. There's
5 a number of assumptions one could be making.
6 Q. If you exclude a variable, isn't that the
7 same thing as assigning that variable a zero
8 coefficient?
9 A. In, we're talking about the kind of models
10 I'm talking about, yes, excluding it is the
11 same as assigning it a zero coefficient.
12 Q. When you imputed or filled in or estimated
13 missing values, did you make any conditional
14 independent assumptions?
15 A. Could you be a little more specific about
16 what you mean by a conditional independent
17 assumption in this context?
18 Q. It's a term of art in statistics, isn't it?
19 A. Well, that's just why I asked for you in this
20 context.
21 Q. Is it a term of art in statistics?
22 A. It's a term of art, but in different contexts
23 it may mean different things to different
24 statisticians.
25 Q. Well, what is your understanding of what it
265
1 means?
2 A. Well, I'm not sure in the current context.
3 That's why I was asking you.
4 Q. Do you have any understanding of the meaning
5 of the term "conditional independence"?
6 A. My understanding, in general, of the term
7 would be -- well, yes, I have an
8 understanding.
9 Q. And what is it?
10 A. I would summarize it as saying if you had
11 three factors, you took into account one of
12 them, and after taking into one of the
13 account, the first one, the other two were
14 independent, that's what I would call
15 conditional independence.
16 Q. And did you make assumptions of that kind
17 when you filled in, imputed or estimated
18 missing values in your data sets?
19 A. I'm not sure. I haven't really thought about
20 it in that manner.
21 Q. If you made any such assumptions, have you
22 tested the validity of those assumptions?
23 A. I don't know.
24 Q. Have you conducted any tests of statistical
25 significance on the core model's
266
1 smoking-attributable fractions?
2 A. Statistical significance?
3 Q. Yes, sir.

4 A. I'm not quite sure what that would mean in
5 the context of the core model.
6 Q. Well, have you tested to determine whether or
7 not you can say at the 95 percent, or
8 whatever confidence level you wanted to use,
9 that the SAFs estimated by the core model are
10 different than zero?
11 A. I have not calculated it at this point, a
12 confidence interval for the core model
13 results.
14 Q. Have you calculated a confidence interval for
15 any part of the core model?
16 A. No.
17 Q. Now we discussed yesterday that the only
18 effect of smoking on individuals 19 to 34
19 that you attempt to estimate with your models
20 is the effect of diminished health status
21 right?
22 A. Well, that's what we call the diminished
23 health status models, yes.
24 Q. And yesterday you couldn't remember the SAFs
25 for particular age/gender groups and type of
267
1 service from the diminished health status
2 model, right?
3 A. I don't remember what I said yesterday --
4 Q. Okay.
5 A. -- but it's certainly true that I don't --
6 Q. Okay.
7 A. -- remember them right now.
8 Q. Well, I, I, I actually went and looked last
9 night. And I looked at males and I looked at
10 ambulatory expenditures, which is, ambulatory
11 expenditures is a big category of
12 expenditures, right?
13 A. It's a category.
14 Q. Well, aren't most of the expenditures that
15 you analyzed in the refined model for
16 hospital or ambulatory services?
17 A. Most of them for hospital or ambulatory?
18 Q. Right.
19 A. Combined, yes, I think those are the two
20 biggest categories, yes.
21 Q. Thank you. And for ambulatory expenditures,
22 the males 19 to 34 had a smoking-attributable
23 fraction of 24 percent. I want you to assume
24 that I'm right about that.
25 A. Okay.
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1 Q. And I also want you to assume that the SAF
2 for ambulatory expenditures for males 35 to
3 64 was one and a half percent.
4 Does that make any sense to you? If, in
5 fact, those are the SAFs generated by your
6 model?
7 A. Well, any model that attempts to improve the
8 accuracy of the final result by doing
9 conditional estimates in lots of small parts
10 is likely to see some fluctuations.
11 So to some extent, the fact that, that
12 there's any difference there doesn't mean too
13 much.
14 Q. Well, I mean the SAF for males 19 to 34 for

15 diminished health status from smoking is more
16 than 13 times higher than it is for males 35
17 to 64.

18 A. That's correct.

19 Q. How can that be?

20 A. Well, one thing that goes on is that, as I
21 say, when you -- it's well known and accepted
22 in statistics that you can improve overall
23 estimates by making conditional estimates
24 that are applicable to each of the parts, but
25 in doing so you have to suffer the

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1 consequences that occasionally some of the
2 parts will appear high and some of them will
3 appear low.

4 Q. And is that always the case, regardless of
5 sample size?

6 A. The general concept applies, regardless of
7 sample size, that the more you cut things up,
8 the more fluctuation you're going to see in
9 individual pieces. But if an appropriate
10 analysis is being done, the overall result is
11 more reliable.

12 Q. Did you have sample size problems in the
13 diminished health model for any of your
14 age/gender groups?

15 A. None that I would characterize as, as
16 problems.

17 Q. So the source of the fluctuation that I have
18 hypothesized but that I believe is, in fact,
19 reflecting the actual results is not due to
20 small sample size in the age/gender
21 categories, right?

22 A. No, you can't really make that
23 generalization. The appearance of anomalous
24 results in groups depends on, well, depends
25 on a number of things. But primarily it,

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1 it -- the primary factors you look at are not
2 only sample size in any individual groups but
3 how many individual groups you're looking at.

4 And here, when you count up different
5 services, different age and gender groups,
6 you're looking at a lot of groups. So you
7 have to weigh that in with the sample size
8 and the individual --

9 Q. You're looking at 24 groups, right? Four
10 service types, three age, three age, two
11 gender?

12 A. It sounds right.

13 Q. I believe you used the term "anomalous."

14 Would you agree that it would be
15 anomalous to have a 20 percent
16 smoking-attributable fraction for diminished
17 health status in males 19 to 34 for
18 ambulatory care but a one and a half percent
19 SAF for males 35 to 64?

20 A. It's a result, then, in many circumstances I
21 would tend to look into further to see if
22 there's any other understanding that could be
23 developed.

24 Q. It is certainly counterintuitive, isn't it?

25 A. I don't know as I would use the term

- 1 "counterintuitive."
- 2 Q. Well, would you expect smoking to affect the
- 3 health status of 19- to 34-year olds more
- 4 than it affects the health status of 35- to
- 5 64-year olds?
- 6 A. I don't know as I'd have expectations one way
- 7 or another. I'd have to think about that.
- 8 Q. You mean to tell me you've never thought
- 9 about the effect of smoking on the health
- 10 status of individuals in the age/gender
- 11 groups analyzed by your refined model?
- 12 A. Well, yes, I have, but we've taken out a lot
- 13 of currently treated disease, which is a big
- 14 part of it.
- 15 And, and I'm just qualifying my answer
- 16 towards we're looking at particular groups
- 17 with particular characteristics and
- 18 particular insurance categories. And I'm
- 19 just not sure at this point what my
- 20 expectation would be for some comparison of
- 21 those groups.
- 22 Q. Yesterday I asked you some questions about
- 23 reservations or criticisms you had of some of
- 24 the data sets and I think I didn't ask about
- 25 two of them, so I just wanted to follow up.

- 1 Did you have any reservations or
- 2 criticisms of the NMES data?
- 3 A. Well, no data set is perfect. And every data
- 4 set could be improved, I think.
- 5 NMES is a superb source of data for
- 6 medical care and health expenditures. And
- 7 it's entirely reasonable to do analysis of
- 8 health expenditures using it.
- 9 Q. Was there any way in which you wished that
- 10 the NMES data had been different?
- 11 A. Well, you can always wish that they had
- 12 30,000. I could wish for 40,000. And if
- 13 they'd give me 40,000, I could have wished
- 14 for 50,000. But it's certainly a, a
- 15 substantial sample size.
- 16 Q. So if you could change anything about the
- 17 NMES data set, you would make it bigger.
- 18 Is there anything else that you would
- 19 do?
- 20 A. Well, I'm not --
- 21 MR. LOVE: I'll object to the
- 22 form of the question. It misstates his
- 23 testimony.
- 24 MR. BIERSTEKER: I'm not sure it
- 25 does, but okay.

- 1 THE WITNESS: So what is the
- 2 question?
- 3 BY MR. BIERSTEKER:
- 4 Q. If you could change the NMES data in any way
- 5 to improve it, how would you do it?
- 6 A. Well, it's difficult to answer that, because
- 7 in any survey you could improve almost
- 8 anything because no aspect of it is perfect.
- 9 I guess if there were one thing I would
- 10 do in our application, it would, it would

11 clearly be convenient and a more
12 straightforward analysis if NMES was entirely
13 done in Minnesota rather than a national.

14 And I guess if you gave me, you know, a
15 genie in a bottle, I would say, yes, that's
16 probably the one thing I would do. But
17 that's certainly, I certainly wouldn't
18 characterize that wish as saying, in any way
19 shape or form, that I don't think the current
20 NMES can be used for Minnesota.

21 Q. Let me ask a question with respect to BRFSS
22 which I didn't think I asked about yesterday.

23 Do you have any reservations or
24 criticisms of the BRFSS data?

25 A. Well, again, no data set is perfect. And

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1 almost any aspect of BRFSS, as with any
2 aspect of any data set, you could conjure up
3 some way it could be improved, at least
4 theoretically. But on the whole it's a, in,
5 in my view, a very sound and reasonable data
6 set on which to perform analyses.

7 Q. The genie has come back in the bottle and has
8 granted you one more wish.

9 If you could change the BRFSS data set,
10 how would you change it?

11 A. I guess in our context if I could change one
12 thing, it would be getting the questions
13 answered consistently in every single year so
14 that we didn't have to do extra work to try
15 to make everything consistent.

16 Q. Was it that the questions differed or the
17 responses given differed?

18 A. Well, I think the questions differed.

19 Q. And how did you go about conforming the
20 responses from year to year if the questions
21 were different?

22 A. Well, the one I had in mind was the insurance
23 status question which I believe was missing
24 in two of the years.

25 Q. So it wasn't the form of the question, it was

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1 the inclusion or exclusion of it?

2 A. Oh, I'm sorry, yes. Inclusion, consistent
3 inclusion and wording of the questions.

4 Q. When the wording of the questions varied --

5 A. They may have, I don't recall.

6 Q. -- how, how did you ensure the consistency of
7 the responses?

8 MR. LOVE: I'll object to the
9 form of the question.

10 THE WITNESS: I -- the one I had
11 in mind with my statement, and I'm sorry, I
12 did say inclusion in wording. But I guess
13 what I was thinking of was really the
14 inclusion and exclusion of that question. I
15 don't recall that it really changed form.

16 BY MR. BIERSTEKER:

17 Q. All right. There's a discussion in the
18 report, which is, I believe 3602 about
19 "Goodness of Fit" on Page 32.

20 Are you with me?

21 A. Yes.

22 Q. I have a threshold question. If I have
23 questions about this section of the report,
24 are they better directed to you or to
25 Dr. Zeger?

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1 A. I'm just taking a minute to read this
2 section.

3 Q. Fine, go ahead.

4 A. Well, Dr. Zeger is primarily responsible for
5 this section. There's nothing in it I
6 disagree with, but. . .

7 Q. That's fine, thank you.

8 THE WITNESS: Could we take a
9 break for a minute here?

10 MR. BIERSTEKER: Yeah, sure.

11 THE VIDEOGRAPHER: The time is
12 now 10:31, and we are temporarily going off
13 the video record.

14 (A recess was taken and Defendants'
15 Deposition Exhibit 3604 was marked
16 for identification.)

17 THE VIDEOGRAPHER: We're back on
18 the video record. The time is now 10:37.

19 This is the beginning of Tape Number 6
20 in testimony given by Dr. Wyant.

21 BY MR. BIERSTEKER:

22 Q. Doctor, I had one question about
23 Exhibit 3603, the, the chart. And, and I
24 apologize if I've asked this before; I don't
25 think I have.

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1 But was this analysis done for all
2 people in NHANES for all years?

3 A. This analysis, this table?

4 Q. Yes, the analysis that resulted in this
5 table.

6 A. My recollection is it was done essentially on
7 the same people that are included in the main
8 analysis. But that there might have been
9 some corrected computer program, since it
10 might have changed the, slightly the, the
11 count of people in that main analysis.

12 So if that had happened, this table
13 wouldn't have been rerun, necessarily.
14 That's as best as I can recall.

15 Q. I apologize because I've forgotten and can't
16 seem to find it right now. But who were the
17 people who were in the main analysis?

18 A. I couldn't --

19 Q. Actually, I think I may have found it, now.
20 Let me ask another question and see if it
21 works.

22 Were the people included in the main
23 analysis, looking at Page 21 of Exhibit 3602,
24 the people who were interviewed in the
25 follow-up survey to NHANES in 1982 to '84,

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1 '86, '87 and 92?

2 A. I'm sorry. First of all, let me -- I'm in
3 the wrong page.

4 Q. Oh, okay.

5 A. So. . .

6 Q. You did that on purpose, didn't you? Page

7 21.
8 MR. LOVE: Twenty-one.
9 BY MR. BIERSTEKER:
10 Q. The, the second full paragraph on the page.
11 A. All right. And I'm sorry, so now what is
12 your question?
13 Q. My question is, were the people who were
14 included in the main analysis all the people
15 who were interviewed in the NHANES follow-up
16 interviews?
17 A. All the people. I don't recall any
18 exclusions, but I couldn't say right now that
19 there might not have been one for some
20 reason.
21 Q. In any event, it is your present recollection
22 that the people included in the analysis that
23 gave rise to Exhibit 3603 were the same
24 people who were used in the main analysis,
25 right?

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1 A. Well, that's the best of my recollection. I,
2 I did qualify that as to --
3 Q. And I think I qualified my question in the
4 same way.
5 But that is your recollection now,
6 right?
7 A. Yes.
8 Q. All right. Let's turn to the next
9 exhibit which is Exhibit 3604, and that would
10 be your additional report.
11 Is the, the bottom line of this report
12 that you think that never-smokers in
13 Minnesota covered by private health insurance
14 obtained through their employer have lower
15 wages because some employees smoke?
16 A. Not really.
17 Q. Okay. What do you think the bottom line is?
18 A. That the costs of smoking-attributable
19 disease in this period are partially borne by
20 persons covered by private insurance outside
21 the lawsuit. And a reasonable estimate of
22 how that occurs is it, to a large extent, it
23 comes in the form of reduced wages.
24 Q. Now I want to go through the data and methods
25 portion of the report that starts on Page 3,

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1 so you might want to turn to that.
2 I take it that you first wanted to know
3 how many adults in Minnesota are covered by
4 private health plans, right?
5 A. Yes.
6 Q. And you didn't have all of that information,
7 right?
8 A. Well, I guess this page describes my efforts
9 at obtaining that information.
10 Q. Right. You were unable to obtain it for all
11 the years in which you were interested,
12 right? And so you filled it in when you were
13 missing it.
14 A. I'm sorry, what, now, is the question?
15 Q. The question is, did you have a count of
16 adults in Minnesota who were covered by
17 private insurance plans in the years you were

18 examining?
19 A. I didn't have a complete count in any year.
20 I had CPS data for the majority of the years.
21 Q. Okay. You had a survey that covered some of
22 the years but not all of them, right?
23 A. The majority of them, yes.
24 Q. A majority of the years but not all of them,
25 right?

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1 A. That's correct.
2 Q. All right. And for the years in which you
3 did not have even a sample, you filled in the
4 missing data, right?
5 A. On CPS?
6 Q. Well, it says in your report that "missing
7 figures for all private insurance I filled in
8 using regression methods."
9 A. Oh, okay.
10 Q. What did you fill in?
11 A. The, from CPS they had employer insurance in
12 all the years for which I had CPS data. That
13 is, estimated counts of people covered
14 through their employer. They only had
15 estimated counts of people covered through
16 private plans for, oh, approximately the last
17 half.
18 So to get those additional counts, I did
19 do a regression estimate.
20 Q. And did you have any information about
21 private insurance for 1978 or 1979?
22 A. I do not believe so.
23 Q. Okay. And did you fill in numbers of
24 individuals who had private insurance in
25 those two years?

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1 A. Not exactly.
2 Q. Well, what did you do for those two years?
3 A. This calculation proceeded in the sense
4 somewhat like the other report for the span
5 of years for which there was some CPS data,
6 from beginning to end, all the calculations
7 were made. And then there was a
8 extrapolation to '78, '79 at the very end.
9 Q. So you estimated the number of people with
10 private insurance in 1978 and 1979 using the
11 information you had for other years.
12 A. That's -- yes, effectively, that's correct.
13 Q. And you estimated the number of people who
14 had private insurance other than through
15 their employer for the years 1980 to 1986
16 inclusive, right?
17 A. I'm sorry, would you repeat that?
18 Q. You estimated the number of people who had
19 private insurance other than through their
20 employer for the years 1980 through 1986
21 inclusive, right?
22 A. I, would you just read me those numbers
23 again? They sounded right, but. . .
24 Q. Well, as I understand it, from 1980 to 1986
25 the --

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1 A. Right.
2 Q. -- CPS survey only asked about insurance

3 obtained through an employer, right?
4 A. Right.
5 Q. And you estimated the number of people who
6 had private insurance from all sources for
7 those years, right?
8 A. Yes.
9 Q. And so you had to estimate the number of
10 people who had private insurance other than
11 through their employer for the years 1980
12 through 1986.
13 A. Correct.
14 Q. Right. Now did you know the age/gender
15 distribution of the adult subscribers to
16 private insurance other than Blue Cross and
17 Blue Shield of Minnesota for any of these
18 years?
19 A. I didn't take that into account.
20 Q. In the first report, you estimated
21 smoking-attributable fractions separately for
22 each age and gender group, right?
23 A. Yes.
24 Q. And the smoking-attributable fractions were
25 different for different age and gender

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1 groups, correct?
2 A. Correct.
3 Q. Did you assume here that the age and
4 distribution of participants in private
5 health plans throughout the State of
6 Minnesota was the same as the age and gender
7 distribution of the participants in the Blue
8 Cross and Blue Shield fully rated groups?
9 A. Well, I assumed that the participants in the
10 Blue Cross groups that -- well, I assumed
11 that there was -- the different plans were
12 similar enough that I could estimate, carry
13 out the estimates I did, assuming that the
14 Blue Cross profile was a reasonable estimate.
15 Q. So did you assume, then, that the age, the
16 average smoking-attributable fraction for the
17 participants in the Blue Cross Blue Shield
18 fully rated plans could apply to participants
19 in every other private health insurance plan
20 in the State of Minnesota?
21 A. Yes, that was the assumption I made here.
22 Q. And in order to do that, you had to take a
23 weighted average of the separately calculated
24 SAFs for each age and gender group right?
25 A. That's correct.

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1 Q. And you used the age and gender distribution
2 of the Blue Cross Blue Shield fully insured
3 groups in order to do that, correct?
4 A. Yes.
5 Q. And that is, in effect, then, assuming that
6 the age and gender distribution of the other
7 private insurance plans in the state are the
8 same as the distribution found in the Blue
9 Cross Blue Shield of Minnesota fully rated
10 groups, right?
11 A. Well, similar enough that using the Blue
12 Cross data would produce a reasonable
13 estimate.

14 Q. Well, if the age and gender distribution
15 would be different the SAF for that group
16 would be different, right?
17 A. That's right.
18 Q. Now did you know how many employees covered
19 by other private health insurance plans in
20 the State of Minnesota had one of your major
21 tobacco-related diseases?
22 A. No.
23 Q. Have you reviewed any literature suggesting
24 that participants in health maintenance
25 organizations generally tend to be healthier

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1 than individuals who participate in
2 fee-for-service plans?
3 A. I may have, I don't recall.
4 Q. And here again, you assumed that the
5 percentage of people who had a major
6 tobacco-related disease in these other
7 private insurance plans was the same as the
8 percentage of people in the Blue Cross Blue
9 Shield of Minnesota fully rated groups who
10 had a major tobacco-related disease, right?
11 A. Or reasonably similar disease profiles, yes.
12 Q. Well, you, in fact, used the point estimate
13 of the SAF, right?
14 A. Yes.
15 Q. So in effect you did assume they were the
16 same.
17 A. I don't know how to say it any other way.
18 If, if by what you mean the effect, they were
19 the same as equivalent to what I say by
20 reasonably similar in terms of being able to
21 use the single estimate, then yes, I, I agree
22 with you.
23 Q. I mean, if, if they were reasonably similar,
24 I would expect to see a range of estimated
25 costs. Instead, I see an estimate. Now --

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1 A. Estimates are -- everything in our world is
2 different and yet estimates are used all the
3 time.
4 The only point I'm making here I'm not
5 assuming every plan is absolutely identical.
6 I am treating them like that for purposes of
7 making this estimation.
8 Q. Do you know whether the other private --
9 well, you don't know what the other private
10 health insurance plans spent in any year, do
11 you?
12 A. No.
13 Q. And so you don't know whether they paid more
14 or less for each recipient than Blue Cross
15 Blue Shield of Minnesota paid.
16 A. That's correct.
17 Q. Do you know if the deductibles on these other
18 insurance plans were higher or lower than
19 they are for Blue Cross Blue Shield of
20 Minnesota's fully rated groups?
21 A. No.
22 Q. Do you know whether the co-insurance payments
23 were the same percentage or not for these
24 other health insurance plans than they were

25 for the Blue Cross Blue Shield of Minnesota 288

1 fully rated groups?

2 A. No.

3 Q. Do you know whether the co-insurance limits

4 were the same?

5 A. No.

6 Q. Do you know whether the scope of coverage was

7 different or not?

8 A. No.

9 Q. Do you know if Blue Cross Blue Shield of

10 Minnesota covers the cost of smoking

11 cessation programs such as those run by the

12 American Lung Association?

13 A. I don't know.

14 Q. Do you know whether any private insurer in

15 the state does?

16 A. No.

17 Q. If it's more costly to provide private health

18 insurance to smokers, do you know why Blue

19 Cross Blue Shield wouldn't cover smoking

20 cessation programs?

21 A. That's not something I've thought about.

22 Q. Do you know if any of these other private

23 insurance plans or HMO or fee-for-service or

24 preferred provider type plans?

25 A. I'm sorry, I --

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1 Q. Do you know -- well, included in the other

2 private insurance would be health maintenance

3 organizations, right?

4 A. Correct.

5 Q. Included in the other private insurance plans

6 would be fee-for-service type plans, correct?

7 A. I would assume so.

8 Q. And included would also be preferred provider

9 type plans, right?

10 A. Yes.

11 Q. What type of plan -- let me start over.

12 The estimate that you made for Blue

13 Cross Blue Shield's fully insured groups was

14 made for fee-for-service type plans, right?

15 A. A particular fee-for-service type plan, yes.

16 Q. Do you know whether, whether any -- do you

17 know whether or not any of these other

18 private plans charged smokers a higher

19 premium than they charged to nonsmokers?

20 A. No.

21 Q. Some health insurance plans do charge

22 differential premiums depending on smoking

23 status, don't they?

24 A. I believe that some do.

25 Q. Is there any reason why a private health

290

1 insurance plan couldn't be structured to

2 charge smokers with any increased health care

3 costs they might incur?

4 A. I couldn't answer that, I don't know. There

5 may be legal, there may be business reasons

6 that affect that. I really don't know.

7 Q. Do you know if Blue Cross Blue Shield of

8 Minnesota charged differential premiums to

9 participants in its fully insured groups

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10 based on smoking status?
11 A. No one could identify such a group when I
12 asked that question.
13 Q. Do you think the State of Minnesota should
14 recover any extra money paid by never-smokers
15 for private health insurance because the
16 private insurers failed to charge a
17 differential premium?
18 A. I don't have any opinion on that.
19 Q. Does that make any sense to you?
20 A. I haven't thought about it.
21 Q. Are the tobacco companies to blame for the
22 failure of private insurers to charge a
23 differential premium, assuming that one were
24 justified?
25 MR. LOVE: I'll object to the
291
1 form of the question. Answer if you can.
2 THE WITNESS: I don't have any
3 opinion on that, either.
4 BY MR. BIERSTCKER:
5 Q. You say in your report that it's sensible to
6 think of increased health costs incurred by
7 smokers in any given year that you've
8 estimated to be thought of as a wage penalty?
9 A. Yes.
10 Q. To the extent there's a wage penalty on
11 never-smokers, is there a wage windfall for
12 smokers?
13 A. I don't know. I've not really looked at
14 smokers in this analysis.
15 Q. To the extent there is a wage penalty imposed
16 on never-smokers, how does that harm the
17 State of Minnesota?
18 A. I don't know. I don't have an opinion on
19 that.
20 Q. Now in the second paragraph on Page 3 of
21 Exhibit 3604, it says you estimated the total
22 annual smoking-attributable expenditures per
23 covered adult.
24 Does that mean that you assume that the
25 per capita smoking-attributable expenditures
292
1 that you estimated for Blue Cross Blue Shield
2 of Minnesota applied to all the other private
3 health insurance plans in the state?
4 A. It means that I think that
5 smoking-attributable percentage was a
6 reasonable estimate for those other plans as
7 well.
8 Q. Now you said "percentage" and I asked amount.
9 A. Oh, I'm sorry.
10 Q. And the, and the reason I asked amount is as
11 I understood your earlier testimony you
12 didn't have total dollars to apply a
13 percentage to. So let me ask the --
14 A. Oh.
15 Q. -- question again.
16 A. Please do. I'm sorry.
17 Q. Did you assume that the per capita
18 smoking-attributable expenditures, not the
19 percentage but the actual dollars that you
20 estimated for Blue Cross Blue Shield of

21 Minnesota applied to all the other private
22 health insurance plans in the state?
23 A. I said that those actual dollars were a
24 reasonable estimate for the other plans, yes.
25 Q. Do you think that that assumption can be made
293
1 to a reasonable degree of statistical
2 certainty?
3 A. This is a far simpler analysis than the other
4 one.
5 Q. I know.
6 A. And that is clear and you need to take that
7 into account.
8 With the understanding that this is a
9 simpler analysis, I believe that there's a
10 general similarity, and I'm assuming that
11 here between plans such that that number can
12 be used.
13 Q. Doctor, you say on Page 1 of your report that
14 the estimates here are made to a reasonable
15 degree of statistical certainty.
16 Do you think that?
17 A. Yes.
18 Q. On what basis?
19 A. I used accepted data sources. I used
20 accepted methods. I made assumptions that
21 were clearly laid out here that I think are
22 similar to the kinds of assumptions that I
23 see made by analysts like myself all the time
24 and on which decisions are made. And I think
25 all the those things form the basis of my
294
1 opinion.
2 Q. Have you empirically validated any of the
3 assumptions that you've made?
4 A. I've made no additional calculations other
5 than those here to validate these figures.
6 Q. So then since I don't see any calculation
7 here to validate any of the assumptions we've
8 been talking about, I take it you didn't do
9 any, right?
10 A. Well, other than assessing them against the
11 general level of analyses that I see in my
12 experience.
13 Q. Well, in your experience, is the age and
14 gender distribution of participants in
15 private insurance plans the same in every
16 plan?
17 A. I have no reason to believe they're the same,
18 but I have every reason to believe that in
19 many instances other analysts would take a
20 plan in the State of Minnesota as an estimate
21 that one could apply to achieve this purpose
22 here.
23 Q. You know, I guess implicit in this analysis
24 is an assumption that the estimate of per
25 capita annual costs attributable to smoking
295
1 estimated by your joint report with Doctors
2 Zeger and Miller is correct, right?
3 A. It certainly assumes that that is a
4 reasonable estimate for Blue Cross Blue
5 Shield.

6 Q. Well, you also assume, since you used the
7 same smoking-attributable expenditures for
8 every plan on a per capita basis, that it's a
9 reasonable estimate for every other plan,
10 right?
11 A. In the context of this particular analysis
12 yes.
13 Q. Now you next estimate the percentage of
14 adults in Minnesota covered by private
15 insurance who smoke, right?
16 A. That's correct.
17 Q. And for some years you used the Minnesota
18 BRFSS data.
19 A. Correct.
20 Q. Was the smoking prevalence information that
21 you used for participants in private health
22 insurance plans in the state broken out by
23 age and gender?
24 A. That I used? No.
25 Q. And it also wasn't broken out by disease

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1 status, right?
2 A. That's correct.
3 Q. Now for some years you didn't have a survey
4 of the percentage of adults covered by
5 private insurance in Minnesota who smoked,
6 right?
7 A. That's right.
8 Q. And in those years, you used what?
9 A. I estimated those using national health
10 interview survey data.
11 Q. For what did you control when you estimated
12 that missing data?
13 A. Nothing.
14 Q. Now you next assumed, as I read this
15 paragraph, that the smoking-attributable
16 expenditures per capita were equally
17 distributed across all smokers and
18 never-smokers insured by private insurance,
19 right?
20 A. Can you say that again?
21 Q. Well, it's, it's, it's in your report. Let
22 me read the sentence and then --
23 A. Okay.
24 Q. -- I'll ask you what it means.
25 You say, quote, "Under the assumption

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1 that smoking-attributable costs were equally
2 distributed across all smokers and
3 never-smokers."
4 A. Yes.
5 Q. Okay. What do you mean by that?
6 A. For example, if there's no great tendency of
7 smokers to appear in plans with high premiums
8 and nonsmokers with low premiums.
9 Q. Now --
10 A. Or vice versa. Excuse me, that was an
11 example, but. . .
12 Q. And to the extent you want to characterize
13 this as a wage penalty, you're assuming that
14 the wage penalty is the same for smokers and
15 nonsmokers?
16 A. Well, I did this on the nonsmokers. I don't

17 see why the effect on wages would be any
18 different, given the assumptions here.
19 Q. Now I guess one of the questions I had is,
20 again returning to this phrase, you assumed
21 that, quote, "smoking-attributable costs were
22 equally distributed across all smokers and
23 never-smokers"?
24 A. Yes.
25 Q. Do you mean all smoking and nonsmoking
298
1 employees, or all smoking and nonsmoking
2 persons covered by private insurance?
3 A. The assumption being used here relates to all
4 private insurance.
5 Q. So it's all persons covered by private
6 insurance?
7 A. Well, I mean I, adults in the age ranges I
8 spoke about here, yes.
9 Q. So if a smoker is the employee and he has
10 four dependents, none of whom smoke, have you
11 included a wage penalty in your computations
12 for those nonsmoking dependents?
13 A. No, I don't believe so.
14 Q. Well, now, I'm confused. I'm going to have
15 to go back.
16 Were the smoking-attributable
17 expenditures in this analysis averaged over
18 employees or were they averaged over
19 beneficiaries of the private --
20 A. Oh, I'm sorry.
21 Q. -- health insurance?
22 A. I misunderstand. This analysis applied to
23 the expenditures for subscribers and their
24 adult dependents. And then it was averaged
25 over the subscribers.
299
1 Q. So did you do an estimate of smoking
2 prevalence among individuals who were
3 employed and covered by private insurance?
4 A. Could you read that again or ask that again?
5 Q. Yeah. I, well, as I understood it, your
6 smoking prevalence was just for all adults in
7 the State of Minnesota, right, or maybe all
8 adults covered by private insurance, I can't
9 remember?
10 A. Adults 19 to 64 covered by private insurance.
11 Q. And that was true whether or not the person
12 was the employee who was the subscriber,
13 right?
14 A. Correct.
15 Q. Did you do an estimate of smoking prevalence
16 among the employees who were the subscribers?
17 A. I'm not understanding your question here.
18 Perhaps you could ask the previous one again.
19 I, I didn't --
20 Q. Did you assume that the percentage of people
21 who smoke, who are covered by private
22 insurance, is the same as the percentage of
23 individuals who are employed and have private
24 insurance from their employer?
25 A. I'm very sorry, I'm going to have to ask you
300
1 to ask that again.

2 And I'm not trying to be difficult here,
3 I'm having trouble --
4 Q. I --
5 A. -- tracking through this.
6 Q. I understand. I mean, it seems to me -- let
7 me, I'll, I'm going to do a long soliloquy
8 and so Mr. Love can object. But I want to
9 kind of tell you what I'm going at.
10 It, it would seem to me if you wanted to
11 distribute the smoking-attributable
12 expenditures that you estimated for each
13 dependent across the people who actually were
14 working and obtained the private insurance
15 that what you'd want to have is the
16 prevalence of smoking among the people who
17 were employed, not the people who were
18 covered.
19 Now, as I understand the analysis you
20 did, you used the percentage of people who
21 smoked who were covered by private insurance
22 in the State of Minnesota, right?
23 MR. LOVE: Well, I'll object.
24 But answer the question.
25 MR. BIERSTEKER: This is like a
301
1 tag team.
2 THE WITNESS: I did use the
3 percentage of people who were covered as,
4 of -- well, I forget. What was the question?
5 BY MR. BIERSTEKER:
6 Q. The smoking prevalence for the people who
7 were covered.
8 A. I, I used the smoking percentage of people
9 who were covered as an estimate of the
10 smoking percentage for both the employees and
11 their adult dependents.
12 Q. Yes, I know. But then you averaged, as I --
13 did you not average the smoking-attributable
14 expenditures only across the people who were
15 employed and had private insurance? The
16 subscribers.
17 A. Yes. The, in effect, average cost.
18 Would you, could you say exactly more
19 clearly what you mean by that?
20 Q. Well, let me take it step by step and see if
21 we can walk through it. And this is my
22 understanding. If I've got it wrong, tell me
23 and then I'll ask you how you did it.
24 You first assumed that the per capita
25 smoking-attributable expenditures for every
302
1 person covered by private insurance in the
2 State of Minnesota was the same as that which
3 you had estimated for Blue Cross Blue Shield,
4 right?
5 A. Yes. I did make separate estimates for adult
6 dependents and subscribers from Blue Cross
7 Blue Shield.
8 Q. All right. And then you must have got,
9 simply by multiplying by the number of
10 dependents you've estimated and the number of
11 subscribers you've estimated, a total
12 smoking-attributable expenditure for all

13 private insurance other than Blue Cross Blue
14 Shield in the State of Minnesota.
15 A. Yes.
16 Q. But that's not the same thing as the wage
17 penalty on never-smokers, right?
18 A. I'm not sure.
19 Q. Well, it's the total smoking-attributable
20 expenditures or your estimate of it for
21 private insurance in the state, right?
22 A. For the group we're talking about, yes.
23 Q. Right. And to the extent that that
24 smoking-attributable expenditure comes out of
25 wages, it comes out of the wages of smokers

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1 and nonsmokers, right?
2 A. Yes.
3 Q. And isn't what you've estimated here the
4 portion of those smoking-attributable
5 expenditures that comes out of the wages of
6 the nonsmokers?
7 A. Yes.
8 Q. So to determine that portion, you had to
9 divide the total smoking-attributable
10 expenditures that you estimated by something,
11 right?
12 A. Well, I don't think that's quite the way it
13 worked. What I did was I calculate dollars
14 per person, and then take the percentage of
15 persons who were smokers.
16 Q. Okay. And was that percentage based upon the
17 percentage of people who were subscribers who
18 smoked, or was it the percentage of people
19 who were covered who smoked?
20 A. It was the percentage of people who were
21 covered.
22 Q. So now you assumed that the percentage of
23 people who were subscribers who smoked was
24 the same as the percentage of people who were
25 covered who smoked, right?

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1 A. For purposes of estimation, yes.
2 Q. Thank you. On Page 4 of your report you cite
3 to and discuss an article by somebody named
4 Gruber, it's in the first full paragraph on
5 the page and it's the last sentence or
6 second, the last two sentences.
7 Do you see that?
8 A. The Gruber or the Gruber and Krueger?
9 Q. No, just Gruber by himself.
10 A. Yes.
11 Q. And for those folks who are reading this
12 transcript without this exhibit in front of
13 them, I would like to quote part of one of
14 the sentences here.
15 You say that, quote, "When states
16 mandated insurance companies to provide
17 maternity benefits, the wages of young female
18 employees, the primary beneficiaries of the
19 legislation, fell by an amount that equalled
20 the expected cost of the new benefit." Close
21 quote.
22 Did I do that right?
23 A. Yes.

24 Q. Okay. So in the Gruber analysis, the entire
25 cost of the new benefits were imposed on the 305

1 class of employees, young females, who were
2 most likely to get those benefits, right?
3 A. That's correct.
4 Q. The costs in the Gruber article were not
5 spread equally over all employees, right?
6 A. No.
7 Q. Yet here you assume that the increased health
8 costs you estimate for smokers are borne
9 equally by everybody, not just the smokers,
10 right?
11 A. That's correct.
12 Q. Do you know whether or not the assumption
13 that you've made is correct?
14 A. I think the assumption that I've made is
15 reasonable.
16 Q. Have you ever examined smoking prevalence
17 data by income?
18 A. Have I examined it?
19 Q. Pardon me?
20 A. Have I examined it?
21 Q. Yeah.
22 A. I have not made any explicit examination.
23 Q. Well, do you know whether or not smokers tend
24 to make less money than nonsmokers?
25 A. I think they tend to make less money than 306

1 nonsmokers.
2 Q. Isn't it possible that the higher health
3 insurance costs, if any, for smokers are
4 reflected in their lower wages just as in the
5 Gruber article, the higher costs of maternity
6 leave were reflected in lower wages for young
7 females?
8 A. I believe insurance programs have typically
9 dealt with maternity leave and maternity
10 benefits separately. So I'm not sure that
11 there's any real concordance here.
12 Q. You mean employers offer one insurance plan
13 for health benefits generally and then a
14 separate plan for maternity benefits?
15 A. It's my recollection that historically
16 maternity benefits were treated differently
17 from other benefits in many situations, but I
18 don't have any more recollection than that.
19 Q. Have you empirically validated in any way
20 your assumption that any increased health
21 care costs for smokers are shared equally by
22 all employees?
23 A. I've made no explicit validation of that.
24 Q. Have you made any implicit validation of
25 that? 307

1 A. Other than as I stated earlier that, in my
2 general experience, I think in a simple
3 estimate analysts would take something as
4 Blue Cross and use that to make estimates of
5 the sort I've made here.
6 Q. Well, have you looked at the wages of the
7 Blue Cross Blue Shield employees?
8 A. No.

9 Q. So you don't know even there whether or not
10 any increased health care costs for smokers
11 is borne by the smokers or all the employees
12 as a group, right?
13 A. I don't know that, no.
14 MR. LOVE: Peter, if we could
15 get a break in the next 10 minutes.
16 MR. BIERSTEKER: Well, we could
17 take one now, if you like. It's about 11:35.
18 Why don't we take a short break and then
19 go for maybe another 45 minutes and break for
20 lunch?
21 MR. LOVE: All right.
22 MR. BIERSTEKER: All right.
23 THE VIDEOGRAPHER: The time is
24 now 11:33, and we are temporarily going off
25 the video record.

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1 (A recess was taken.)
2 THE VIDEOGRAPHER: We're back on
3 the video record. The time now is 11:50.
4 BY MR. BIERSTEKER:
5 Q. Great. Doctor, I want to understand a little
6 better what this analysis suggests.
7 In this analysis, private insurers like
8 Blue Cross Blue Shield of Minnesota do not
9 pay any increased costs even if it costs more
10 to provide health insurance to smokers,
11 right?
12 A. Increased interest costs, is that the
13 question?
14 Q. No, increased in the -- let me, let me start
15 it over again.
16 You haven't presented here in this
17 report any penalty to private insurers,
18 assuming that that might arise if smokers
19 have higher health care costs than
20 nonsmokers, right?
21 A. That's correct insofar as the allocation to
22 wages is a reasonable estimate of how the
23 dollars flow.
24 Q. Well, is it?
25 A. I believe so.

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1 Q. So the insurer, himself, or itself, is not
2 harmed if smokers cost more, right?
3 A. Well, I don't know what you mean by "harm"
4 necessarily. I certainly have not made any
5 allocation of smoking-attributable dollars to
6 insurers here in any explicit way.
7 Q. Right. And, and in fact, you assume it's
8 reasonable not to allocate
9 smoking-attributable dollars to insurers,
10 correct?
11 A. No, I don't know as I'd quite say it that
12 way.
13 And within the context of this analysis,
14 I have limited or suggested that the costs do
15 end up in the form of wages.
16 Q. Right. And therefore the costs are not borne
17 by private insurers, nor are they borne by
18 employers, right?
19 A. In the context of this analysis, that's

20 essentially what I've said.
21 Q. Okay. And you think that that is a
22 reasonable analysis, correct?
23 A. Yes.
24 Q. Okay. And the reason you think that those
25 costs end up passing through the insurer and
310
1 passing through the employer and resulting in
2 lower wages is what?
3 A. I'm sorry?
4 Q. What's the reason why you think those costs
5 reasonably are passed through the insurer and
6 passed through the employer to the employees?
7 A. Well, what I've laid out here.
8 Q. Okay. And is what you've laid out that you
9 think that the employer's total wage and
10 fringe benefit bill is set by the market?
11 A. That's basically the assumption going here,
12 yes.
13 Q. And so in that circumstance, if health
14 insurance costs increase for whatever reason,
15 the employer will still pay the same total
16 wage and benefit dollars in total, right?
17 A. That's, I think that's basically the
18 assumption in this analysis here.
19 Q. Right. And so what the employer must do is
20 reduce the cost of other fringe benefits or
21 reduce wages themselves, right?
22 A. It seems to be the pattern that's evidenced
23 by these articles.
24 Q. If fringe benefit costs were lower for
25 whatever reason, in your analysis wages would
311
1 go up, right?
2 A. Well, there are many -- this is a simplified
3 version of one economic scenario, I think,
4 within this version. That is a reasonable
5 statement.
6 There are obviously lots of other things
7 that could change and other circumstances
8 where that might not be true.
9 Q. But you think that this simplified version of
10 one economic scenario is a reasonable one.
11 A. In the context of what I've done here, yes.
12 Q. What are the other things that, what are the
13 other things that could change or other
14 circumstances where that might not be true?
15 A. I don't know any off the top of my head.
16 Just being careful to find out the
17 limitations of what I'm doing here, and
18 certainly there could be more complicated
19 situations if other things changed, as well
20 as something changed, and I don't know what
21 the circumstances would be.
22 Q. And I suppose it's the employer who
23 determines the wages and the fringe benefits
24 that are paid to different employees, right?
25 A. Well, I guess in analyzing these things
312
1 there's a sense in which employers make the
2 decisions and a sense in which market and
3 business factors result in those things
4 happening.

5 Q. I guess what I'm driving at is, the
6 distribution of any increased health care
7 costs that an employer incurs among the
8 employees is something that could be changed
9 by the employer.
10 A. Well, they -- again in the sense they could
11 be changed, but the employer is constrained
12 by various business and market realities.
13 Q. Fair enough. In other words, what you're
14 saying is, if the employer wanted smokers to
15 bear the entire estimated increased health
16 care costs that smokers incur, he could pay
17 smokers less than never-smokers, right?
18 A. Well, I think it's virtually the same answer.
19 There's a sense, I suppose, in which an
20 employer could do that, but they're just
21 constrained by not only business and market
22 but I would presume also by legal realities
23 in doing that. And I certainly don't know
24 what all those are.
25 Q. Well, I don't know what the legal reality is,
313
1 either.
2 But if we put that to one side, what
3 you're saying is if an employer were to do
4 that, he might not be able to attract the
5 employees that he wanted.
6 A. That could be one consequence.
7 Q. Now if we assume, as you've done here, that
8 any increased health care costs attributable
9 to smoking are borne equally by smoking and
10 nonsmoking employees, then at least a portion
11 the smoking-attributable expenditures are
12 paid for by the smokers, right?
13 A. In this sense, yes.
14 Q. Now the only fringe benefit cost you analyze
15 in your additional report is for health care.
16 A. That's correct.
17 Q. And, in fact, it's, it's limited to the, the
18 four categories of health care, I suppose:
19 Ambulatory, hospital, prescription drug and
20 home health?
21 A. That's correct.
22 Q. But there are other externalities that could
23 come into play as between smokers and
24 nonsmokers in the employment context, right?
25 A. That's certainly possible.

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1 Q. Is it reasonable to assume that smokers and
2 nonsmokers have the same pension costs?
3 A. I have no idea.
4 Q. Well, you read Dr. Manning's book, right?
5 A. Yes.
6 Q. What did his analysis show with respect to
7 pension costs?
8 A. I have no recollection.
9 Q. If smokers, as a group, live less long than
10 nonsmokers, won't their pension costs be
11 lower?
12 A. I don't know. I presume that depends on a
13 number of factors. I haven't looked at
14 pension costs.
15 Q. What factors would it depend upon?

16 A. I have no idea. That's why I don't know
17 whether it would be the same.
18 Q. Why would it be any different than health
19 insurance costs?
20 A. Well, I don't know why it would be the same
21 as health insurance costs, I have not looked
22 at pensions.
23 Q. Well, I guess in that respect where you say
24 in your report on Page 1 that you have looked
25 at total external costs of smoking that you

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1 haven't really done that, then.
2 A. I'm sorry, where are you?
3 Q. Bottom, bottom of Page 1.
4 A. Well, I think it says, "The total external
5 costs as described above."
6 Q. Ahh. So it's not the ternal -- the total
7 external costs, it's the total estimated
8 external costs for health insurance in
9 any one year, right?
10 A. Well, in each of the years under
11 consideration there are additional health
12 care costs imposed to pay for
13 smoking-attributable diseases.
14 Q. All right. But just as in the joint report
15 that you submitted with Doctors Miller and
16 Zeger, that's an annual estimate, is that
17 right?
18 A. That's correct.
19 Q. If, in fact, smokers have lower pension
20 costs, I want you just to assume that with
21 me.
22 A. Okay.
23 Q. Won't never-smokers enjoy higher wages in the
24 context of your analysis because of that?
25 A. I have no idea how pension costs are imposed

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1 or how vesting works or what laws affect
2 them, I, I just don't know.
3 Q. Well, and you also have no idea how private
4 insurance for any of these private insurers
5 work or what laws affect it or anything else
6 about them, do you?
7 A. I know that they're all health insurance
8 plans; that they're all in Minnesota, and
9 I've made estimates based on my knowledge of
10 a health insurance plan in Minnesota to
11 estimate the others during an equivalent time
12 period.
13 Q. And you also know that these are all pension
14 plans and that they're all pension plans in
15 Minnesota.
16 Is there anything about health insurance
17 plans that you know that you don't know about
18 pension plans?
19 A. I think the whole second report goes into
20 making very detailed calculations that relate
21 to particular health plans in Minnesota.
22 Q. All right. And it makes very detailed
23 calculations based upon a host of
24 assumptions, many of which we reviewed
25 earlier, right?

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1 A. The second report? Or --
2 Q. The additional report. Let's call it that.
3 A. The additional report. The additional report
4 relies on many assumptions.
5 Q. And you can make the same kinds of
6 assumptions with respect to pension plans,
7 right?
8 A. Well, in a very general sense, the same kinds
9 of assumptions but having spent much -- in
10 fact no time thinking about it, I don't know
11 what difference there would be or what
12 particular assumptions you would make.
13 Q. Okay. Let me ask the question this way.
14 Just assume for a moment that smokers have
15 lower health insurance costs, okay? Are you
16 with me?
17 A. Uh-huh.
18 Q. If smokers have lower health insurance costs
19 than never-smokers, do nonsmokers enjoy a
20 wage boost?
21 A. I don't know. I haven't thought about that.
22 Q. Why wouldn't the analysis be symmetrical? In
23 the context of the analysis you've done, why
24 wouldn't that be true?
25 A. Well, I don't know, it may be true. I simply

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1 have said I haven't thought about it.
2 Q. Why wouldn't it be true?
3 A. I don't know.
4 Q. Didn't Dr. Manning in his book analyze the
5 total external costs of smoking to society?
6 A. I believe that was one of his intents, yes.
7 Q. And he examined a whole range of external
8 costs, didn't he?
9 A. Yes.
10 Q. And he included medical care costs for
11 example, right?
12 A. That's correct.
13 Q. He included nursing home costs, right?
14 A. I believe so.
15 Q. And included pensions, right?
16 A. I have no reason to dispute that.
17 Q. Didn't he conclude that after considering a
18 whole range of external costs, as well as
19 excise taxes paid by smokers, that smokers
20 more than pay their own way?
21 A. He may have concluded that in the context of
22 his study on the things he studied for the
23 kinds of payers he was talking about.
24 Q. Well, do you remember whether he concluded
25 that or not?

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1 A. He may have, I don't recall right now.
2 Q. Taxes in Minnesota are higher than -- well,
3 let me, it may be true. That statement may
4 be true too, but let me put it another way.
5 Excise taxes on cigarette products are
6 higher in, in Minnesota than they are in
7 almost any other state, right?
8 A. I have no idea.
9 Q. Dr. Manning's analysis was published in his
10 book, right?
11 A. That's correct.

12 Q. It was also published, a summary of it, in
13 the "Journal of the American Medical
14 Association," right?
15 A. There was. I don't know if it was a summary,
16 or there were a couple of excerpts or related
17 articles, yes.
18 Q. And the "Journal of the American Medical
19 Association" is a peer reviewed publication,
20 right?
21 A. Yes.
22 Q. Wasn't his analysis also reviewed by the
23 Congressional Research Service?
24 A. I don't recall; it may have been.
25 Q. Why isn't Dr. Manning's analysis dispositive

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1 of the issue whether smokers pay their own
2 way after taking into account all of their
3 external costs and the excise taxes they pay?
4 A. Dispositive of what?
5 Q. Whether there's any net external costs after
6 you take into account all of the things he
7 took into account, plus excise taxes?
8 A. I don't know whether it's dispositive or not.
9 I've focused on other estimates of other
10 health cost scenarios and I've not made a
11 comprehensive attempt to look at the
12 additional literature along with
13 Dr. Manning's that tries to address the
14 things that, that he talks about in his book.
15 Q. Well, I thought you told me yesterday you had
16 systematically examined the scientific
17 literature on smoking and health care costs.
18 Is that not true?
19 A. I've systematically reviewed it, and I have
20 focused on those articles that relate to what
21 I did that that's summarized in these
22 reports.
23 Q. Well, isn't the whole point of what you did
24 in your additional report to suggest that
25 there are external costs of smoking borne by

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1 individuals in the State of Minnesota who are
2 never-smokers?
3 A. Costs of a particular sort at a particular
4 time.
5 Q. Okay, let me ask it this way, then: do you
6 know whether or not examining the full range
7 of external costs of smoking and the excise
8 taxes that smokers pay if smokers cost
9 never-smokers money or save them money?
10 A. I've not made any attempt to look at that
11 question, I don't know.
12 Q. Are you continuing to work on your additional
13 report?
14 A. I'm not doing anything right now. I don't
15 have any plans to at the moment, but I
16 presume that that could change depending on
17 what happens with things beyond my control.
18 Q. I take it you're satisfied with it as is.
19 A. I'm satisfied with it as a very simple
20 report.
21 If it were suggested, for example, that
22 certain things would make it a stronger

23 analysis, I'm not saying there aren't ways
24 that could be made more precise. It is a
25 simple report.

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1 Q. Would you submit this report as it exists now
2 for publication to a peer review journal?

3 A. No.

4 MR. BIERSTEKER: Why don't we
5 take a break now but not a break for lunch
6 because I may be very close to being done.

7 MR. LOVE: Okay.

8 MR. BIERSTEKER: Why don't we
9 take five minutes. We'll assess the
10 situation and then we'll either --

11 MR. LOVE: Tell us what --

12 MR. BIERSTEKER: -- wrap it up
13 or we'll break for lunch. Fair enough?

14 MR. LOVE: Okay.

15 MR. BIERSTEKER: Thanks.

16 THE VIDEOGRAPHER: The time is
17 now 12:19 and we're temporarily going off the
18 video record.

19 (The noon recess was taken.)

20 * * * *

21
22
23
24
25

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1 AFTERNOON SESSION

2 1:28 P.M.

3 THE VIDEOGRAPHER: We're back on
4 the video record. The time is now 1:28 p.m.

5
6

6 CONTINUED EXAMINATION

7 BY MR. BIERSTEKER:

8 Q. Doctor, does the analysis in your additional
9 report apply equally to Blue Cross and Blue
10 Shield of Minnesota?

11 A. Apply in what sense?

12 Q. Well, let's break it down into pieces, then.

13 Do the employees of the employers
14 covered by Blue Cross Blue Shield Minnesota's
15 fully rated groups bear a wage penalty equal
16 to the estimated increased health care costs
17 incurred by smokers?

18 A. Well, as you know, the first report was
19 carried out to a great level of detail and
20 this one was simpler.

21 And in keeping with that, to make
22 statements about Blue Cross, I would probably
23 want to go into some more detailed
24 investigation to check on the sense in which
25 at Blue Cross payments made by Blue Cross and

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1 by employers to them and then the effect on
2 the employees might be different. I have no
3 reason to believe that it is different.

4 Q. All right. If you do apply the analysis
5 contained in your additional report to
6 determine who ultimately bears the burden of
7 the estimated increased health care costs

8 incurred by smokers, those costs would be
9 incurred by the employees covered by the Blue
10 Cross Blue Shield fully rated groups, right?
11 A. Would you say that again, please?

12 Q. No, we'll have to read it back.
13 MR. BIERSTEKER: If you would,
14 please.

15 (The previous question was read by
16 the court reporter.)

17 THE WITNESS: If I apply the
18 same analysis, I would expect that costs
19 associated with smoking-attributable diseases
20 that were paid by Blue Cross and then by
21 employers, that simplified analysis would, I
22 would, would show, as far as I know, that the
23 wages would decrease.

24 BY MR. BIERSTEKER:

25 Q. And a portion of such a decrease in wages

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1 would be borne by those employees who smoke,
2 right?

3 A. Their wages would decrease.

4 Q. And some of it would be decreased wages for
5 employees who smoke, right?

6 A. That's correct.

7 Q. And to the extent that a differential premium
8 were charged to smokers, they would absorb a
9 further portion in the form of an increased
10 premium, right?

11 A. I have not really looked at differential
12 premiums. I don't know if there's anything
13 else that would affect that. I don't know.

14 Q. Well, the analysis in your additional report
15 assumes that there is no differential premium
16 charged, correct?

17 A. That's correct.

18 Q. If smokers do pay a higher premium, would you
19 agree that the costs of that, of that amount,
20 whatever it is, should not be included in a
21 damage estimate?

22 A. No, I have no opinion on that.

23 Q. Well, you estimated here in your additional
24 report the wage penalty on never-smokers
25 only, didn't you?

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1 A. That's correct.

2 Q. You didn't include the wage penalty incurred
3 by the employees who smoke in that estimate,
4 did you?

5 A. No.

6 Q. So why would you include in the damage
7 estimate increased premiums paid by smoking
8 employees?

9 A. Now what do you mean by a "damage estimate,"
10 now?

11 Q. All right. Isn't that what you've done in
12 your additional report?

13 A. The additional report looked at the portion
14 of costs associated with smoking-attributable
15 diseases that are being paid for by
16 subscribers to private plans outside the case
17 who were not smokers.

18 Q. Well, is that not a damage estimate?

19 A. It's -- I've calculated what I've calculated
20 and that's the cost.
21 Q. And you calculated the cost that you
22 estimate, estimated is incurred by
23 never-smoking employees, right?
24 A. That's correct.
25 Q. So if you're going to do the same thing in a
327
1 situation where there is a differential
2 premium, you would not include the
3 differential premium paid by smokers in your
4 estimate, would you?
5 A. If I knew that such premiums existed and had
6 data on them here, I probably would not
7 include them in this estimate.
8 Q. Can you articulate for me any circumstances
9 in which you would include it in the
10 estimate?
11 A. Not right now.
12 Q. Does Blue Cross Blue Shield of Minnesota
13 charge a higher premium to smokers in any of
14 its fully rated groups?
15 A. Not that I could determine.
16 Q. Do you know whether any private health plan
17 in Minnesota charges smokers a higher premium
18 for health insurance?
19 A. I don't know any that does.
20 Q. Is that something that you've investigated?
21 A. No.
22 Q. To the extent that there exists a wage
23 penalty on never-smokers, is there also a
24 wage windfall for smokers?
25 A. I don't know what you mean by that.

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1 Q. Doctor, is there a difference in your mind
2 between higher smoker premiums and nonsmoker
3 discounts?
4 A. Well, there's certainly a difference.
5 Q. Okay. Well, then I have to ask a couple more
6 questions.
7 Do you know whether Blue Cross Blue
8 Shield of Minnesota offers nonsmoker
9 discounts to subscribers in any of its fully
10 rated groups?
11 A. Not that I know of.
12 Q. The same question with regard to other
13 private health insurance plans?
14 A. The same answer.
15 Q. Okay. Does your additional analysis also
16 cover individual health insurance plans?
17 A. Yes.
18 Q. Do you know whether individual health
19 insurance plans in the State of Minnesota
20 offer either a nonsmoker discount or a
21 higher, or impose a higher premium on
22 smokers?
23 A. No.
24 MR. BIERSTEKER: I have no
25 further questions.

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1 I'm not sure, though, about Mr. Silfen.
2 MR. SILFEN: I've got a couple.
3

4 EXAMINATION
5 BY MR. SILFEN:
6 Q. Dr. Wyant, I am Tom Silfen. We met at the
7 beginning of the deposition.
8 Take a look at Page 1 of your report.
9 A. Which one? Excuse me.
10 Q. Your old report, the one we talked about
11 yesterday as opposed to your new report that
12 we talked about today.
13 Now the very first sentence of the
14 report tells us why you were retained, right?
15 A. Yes.
16 Q. And you talked about that earlier with Peter,
17 correct?
18 A. Yes.
19 Q. Okay. And what it says here is that you were
20 returned -- retained and I'll quote, "to
21 determine the amount of money that the state
22 and Blue Cross extended in 1978-1996 to
23 purchase attributable health care services."
24 Do you see that?
25 A. Yes.

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1 Q. Now do you believe that you did calculate the
2 amount of money that the State and Blue Cross
3 Blue Shield expended on health care services
4 from 1978 to 1996 because people smoked?
5 A. Because people smoke?
6 Q. Yeah, because people smoked. Is there some
7 difference between smoking-attributable and
8 because people smoke?
9 A. I would not term smoking-attributable
10 diseases because people smoke.
11 Q. Really? Smoking-attributable diseases are
12 not because people smoked.
13 What are they because of?
14 A. They're smoking-attributable diseases.
15 There's --
16 Q. What is the difference between
17 smoking-attributable diseases and diseases
18 caused by smoking?
19 A. These are diseases caused by smoking.
20 Q. Okay. And so they're smoking, they're
21 diseases that occurred because people smoked,
22 right?
23 MR. LOVE: Objection, asked and
24 answered.
25 MR. SILFEN: Well, come on.

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1 BY MR. SILFEN:
2 Q. Are they diseases --
3 MR. LOVE: You come on.
4 BY MR. SILFEN:
5 Q. -- that occurred because people smoked?
6 A. Well, in each year we look at the
7 differential between smokers and nonsmokers,
8 and the, through all these analyses look at
9 the difference. And in, in each year those
10 smoking-attributable diseases are caused by
11 people smoking.
12 Q. Okay. Now, you also said, though, that you
13 did not calculate the amount that the state
14 would have saved on the same health care

15 expenses if people had not smoked, right?
16 A. I believe that's correct.
17 Q. Aren't they the same thing?
18 A. No.
19 Q. Let me get it straight. You calculated the
20 health care costs incurred because people
21 smoke, but you didn't calculate the health
22 care costs that would have been saved if
23 people did not smoke.
24 Have I got it right?
25 A. That's correct.

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1 Q. Okay. What's the difference?
2 A. People did smoke. We looked at the costs
3 that were incurred as a result of the fact
4 that they did smoke. We looked at the people
5 who were there. We looked at their costs.
6 And we looked at each year, and we looked to
7 see which diseases could be attributable to
8 smoking.
9 Q. I know what you looked at. I want to know
10 why the two computations, in your view,
11 should have a different result, or do you
12 think they're the same?
13 A. I don't know.
14 Q. Do you think they are different? Do you
15 think they would get a different result, or
16 do you assume they would get the same result?
17 A. I think if you do different things you never
18 get precisely identical results.
19 Q. But you should get just about the same
20 result?
21 A. I have no idea.
22 Q. Is there some difference between those two
23 computations? What is the difference, what
24 are the different factors that you see coming
25 into play between the two computations?

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1 A. Where no one ever smokes, you have to make
2 speculative assumptions about what the world
3 would be like without their smoking.
4 In our analysis, we don't make those.
5 Q. I see.
6 A. That's my view.
7 Q. And so you did not want to analyze what would
8 be different in a world without smoking,
9 right?
10 A. What I set out to analyze was exactly what I
11 laid out right here.
12 Q. I just want the answer to this question: you
13 did not wish to analyze what the world would
14 be like without smoking, right?
15 A. It was never an issue that I was looking at.
16 Q. Why? Who decided that what you would look at
17 was how many costs were incurred because
18 people smoked, not what costs would have been
19 saved if people had not smoked? Who decided
20 that?
21 A. The question that was laid out is as stated
22 right here in the report.
23 And then I determined in --
24 Q. Well, the question --
25 A. -- in consultation with my colleagues --

1 Q. Well, I understand --
2 A. -- how best--
3 Q. -- that.
4 A. -- to answer that question.
5 Q. Who laid out that question?
6 MR. LOVE: Let him finish the
7 answer.
8 BY MR. SILFEN:
9 Q. Who, who laid out that question? That's the
10 issue?
11 MR. LOVE: Have you finished
12 your answer yet?
13 THE WITNESS: Now I'm --
14 BY MR. SILFEN:
15 Q. Who laid out --
16 A. -- confused.
17 Q. -- issue?
18 MR. LOVE: Well, let him -- read
19 back the rest of the answer so he can finish
20 it, please.
21 THE WITNESS: We were retained
22 to do this.
23 BY MR. SILFEN:
24 Q. So the lawyers told you what question to
25 answer, is that it?

1 A. They asked us to determine the amount of
2 money that the Plaintiffs expended in this
3 time period to purchase smoking-attributable
4 health care services.
5 Q. Then you took it that you were going to
6 answer that question and no other, right?
7 A. That's correct.
8 Q. Now Peter asked you earlier some questions
9 about controlling for age. And I think he
10 said that when you don't control for age, you
11 allow smokers and nonsmokers to have
12 different ages, and I believe you agreed with
13 that proposition, correct?
14 A. Well, I'm not sure in what context we're
15 talking about.
16 Q. All right. Then let me ask the questions
17 again.
18 When you do not control for age --
19 A. Yes.
20 Q. -- as in your analysis of nursing homes and
21 lung cancer, okay?
22 A. Excuse me.
23 Q. Nursing homes and disease, the analysis that
24 you looked at before?
25 I'll get the exhibit, if you want me to.

1 All right, it's Exhibit 3603?
2 A. Yes.
3 Q. You did not control for age, right?
4 A. On this exhibit?
5 Q. Yes.
6 A. No.
7 Q. Okay. And when you do not control for age,
8 you allow the subjects you're comparing,
9 smokers and nonsmokers, to have different
10 ages, right?

11 A. That's correct.
12 Q. And when you do control for age, you specify
13 that they have the same ages, right?
14 A. Yes.
15 Q. I thought you were going to take the world as
16 you found it.
17 Why would you control for age and make
18 smokers and nonsmokers have the same age?
19 A. In this?
20 Q. Yes.
21 A. This was a simple summary of numbers. And as
22 I testified, we looked at this with respect
23 to age as well.
24 Q. So if we wanted to take the world as we find
25 it and not change anything, I take it we

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1 would not control for age, right?
2 A. It all depends on exactly what you're
3 analyzing.
4 Q. Well, I, you told me --
5 A. If you're making a simple statement that,
6 which is related to this exhibit, that the
7 people entering nursing homes during this
8 period that had the characteristics we talked
9 about here, that's an absolutely correct
10 statement.
11 Q. I'm after a general proposition, now.
12 You told me that your mission was to
13 take the facts just as they are and not
14 change any, am I right? You weren't going to
15 change the world, you were going to take the
16 word as it were, smokers or smokers (sic) and
17 you were going to see what the state
18 expended, isn't that right?
19 A. That's correct.
20 Q. Okay. If that's true, you wouldn't control
21 for age, would you? Because when you control
22 for age, you change smokers and you make them
23 the same age as nonsmokers right?
24 A. No, that's an absolutely incorrect statement.
25 Q. It isn't? I thought you agreed with me that

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1 when you control for age, you make the
2 smokers and nonsmokers the same age.
3 A. Well, then let me clarify my answer.
4 When you control for age, you look at
5 the differentials for smokers compared to
6 similar nonsmokers matched up on the basis of
7 age.
8 Q. You make them the same age, right?
9 A. You don't make them the same age.
10 Q. You assume those --
11 A. You look at those people who are there who
12 are nonsmokers who are at an age and you look
13 at the people who are there who are smokers
14 at the same age.
15 Q. But you assume that they have the same age
16 distribution, right?
17 A. No.
18 Q. You don't?
19 A. I, maybe I'm misunderstanding --
20 Q. So when you --
21 A. -- your question.

22 Q. So when you control for age you, do not
23 assume that the two groups you're controlling
24 for, you're observing have the same age
25 distribution, is that your testimony?

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1 A. I'm sorry, would you repeat that?

2 Q. Well, let me ask it directly: when you
3 control for age, do you assume that the two
4 groups you're observing have the same age
5 distribution?

6 A. No.

7 Q. You do not?

8 MR. SILFEN: Okay. I have no
9 more questions.

10 MR. LOVE: Is that it?

11 MR. SILFEN: That's it.

12 THE VIDEOGRAPHER: The time is
13 now 1:54, and this concludes Dr. Wyant's
14 testimony.

15 MR. SILFEN: I think maybe he
16 wants to change his testimony if you give him
17 a chance.

18 MR. LOVE: No, I don't think so.

19 THE VIDEOGRAPHER: The time is
20 now 1:54 and this concludes the testimony of
21 Dr. Wyant. We're off the video record.

22 (The deposition was adjourned.)

23 * * * *

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1 STATE OF MINNESOTA)

2) SS:

3 COUNTY OF HENNEPIN)

4 BE IT KNOWN THAT I, JAMES M. TRAPSKIN, took the
5 DEPOSITION OF DR. TIMOTHY WYANT - VOLUME II;

6 THAT, I was then and there a notary public in
7 and for the County of Hennepin, State of Minnesota;

8 THAT, I exercised the power of that office in
9 taking said deposition;

10 THAT, by virtue thereof I was then and there
11 authorized to administer an oath;

12 THAT, said witness, before testifying, was duly
13 sworn to testify to the truth, the whole truth, and
14 nothing but the truth, relative to this action;

15 THAT, said witness reserved the right to read and
16 sign the deposition;

17 THAT said deposition is a true record of the
18 testimony given by the witness;

19 THAT, I am neither attorney nor counsel for, nor
related to or employed by any of the parties to this
action in which this deposition is taken and,
further, that I am not a relative or employee of any
attorney or counsel employed by the parties hereto,
or financially interested in this action.

20 WITNESS MY HAND AND SEAL this _____ day of
21 _____ 1997.

22

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JAMES M. TRAPSKIN
RPR, CM, CALIFORNIA CSR NO. 8407
Notary Public, Henn. County, Minn.
My Comm. expires January 31, 2000

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1 DEPOSITION CORRECTION SHEET
2 CASE TITLE: MINNESOTA TOBACCO LITIGATION
DEPOSITION OF: DR. TIMOTHY WYANT - VOLUME II
3 DATE TAKEN: AUGUST 19, 1997
4 REASON FOR CHANGE A: To Correct Transcription Error
B: To Correct Spelling Error
5 C: To Correct Testimony
6 PAGE LINE DESIRED CHANGES REASON
7 _____
8 _____
9 _____
10 _____
11 _____
12 _____
13 _____
14 _____
15 _____
16 _____
17 _____
18 _____
19 _____
20 _____

21 Deponent's Signature _____
22 Subscribed and sworn to before: _____
a Notary Public, County of _____, State of _____
_____ on _____ 1997.

23 Return to: James M. Trapskin
24 RPR, CM, Calif. CSR 8407
620 Plymouth Building
25 Minneapolis, Minnesota 55402